- 20 William Barry And

#### Fishermen -Attention

If you catch a tagged sturgeon, e could use the following in-

we could use the following in-formation.

1. Tag number(s) or tag(s) if it's a keeper. We'd prefer just the numbers from sublegals or over-size so the fish could be released with its tags on, but we know that's not always possible when you're knee-deep in fish.

2. Date caught.

3. Where caught.

Where caught

3. Where caught.
4. Length, if possible.
We have no reward system as yet, but we do send a tag history of the fish. We sure appreciate your cooperation with us regarding tag recoveries. Each bit of information was detailed. information we get puts us one step closer to understanding the life history of these wonderful fish. Thanks again Gayle Kreitman

Fish Biologist

COLUMBIA RIVER FISHERIES LABORATORY 16118 N.E. 219th St., P.O. Box 999 Battle Ground, Washington 96604 (206) 696-6261



I am a great natural resource which has been an important factor in the economy of the Northwest since the early 1800's. During this past century, I have produced values for this area in excess of billions of dollars and, in addition have provided exten-sive employment for the citizen: sive employment for the citizens of our communities along the Pacific Northwest Coast from the Columbia River to Alaska and have supplied the people of our nation with millions of pounds of nutritious protein. food. Let's not get foolish at this stage and let greedy sports-fishermen and sports store operators take over this ource for themselves alone.

#### SALMON FOR ALL NEWSLETTER

EXPO DEBATE

All President Salmon For All President Greg Neitzel, participated on the gillnet vs. recreational panel at the Seattle Fish Expo on October 30, 1987. Also participating were Tony West of the Pacific Coast West of the Predict Coast Fishermen's Association and Kenneth Kukuda, a Southern California sports fishing advocate. The "panel" was mostly a confrontation between Mr. Kukuda and California gilmetters and very typical of user group fights occurring nationwide. The sports advocate, with everything to gain and nothing to lose by encroaching on the commercial fishermen, ranted on about the need to curtail gilmetters without any solid facts to back his position. The gilmetters, with their livelihoods at stake, exchanged heated dialogue with Kukuda. The result was to provide Kukuda. The result was to provide Kukuda with publicity and educate him at with publicity and educate him at the same time with no chance at all of changing his mind. This was typical of some of our encountered last spring in our legislative batt

PACIFIC FISHERIES LEGISLATIVE TASK FORCE

Far better it is to exchange meaningful dialogue with those groups and politicians that seek ar understanding of the facts.
Such an opportunity was afforded to Salmon For All on October 31, 1987 in Charleston, Oregon before the Pacific Fisheries Legislative Task Force. Representing Salmon For All were Greg Neitzel, Jim Hogan, and Bob O'Bryant. Members of the Task Force included:

Force included:
Alaska: Senator Dick Eliason;
Senator Fred Zharoff; Representative John Sund.
Oregon: Senator Bill Bradbury; Senator John Breeneman;
Representative Paul Hanneman;
Representative Paul Hanneman;

Idaho: Senator Re Beitelspacher; Senator Joh Hansen; Representative Ster Ron Herndon; Representative James

Gerald Felando: Assemblyman

Dan Hauser.
Also present were Washington Representative Mary Margaret Haugen (who led our efforts against HB 223) and Task Force Consultant, Mary Morgan.

Greg spehed the presentation with a brief history of Saimon For All. Boh followed with an excellent overview of the national struggle between sports and commercial fishermen (following). "Ten years ago the commercial seafood industry was threatened by massive foreign nets off our coasts, taking what was rightfully due the U.S. public, in particular the American consumer. This was corrected by the commercial specific properties of the commercial specific properties." vessels

vessels.

Now our threat, "enemy" if I may, is right on our shores. This threat is a small band of misinformed, emotional recreational fishermen. As we know, these are not idle threats. We need to know that this is not a struggle just in the Columbia River, but nation

Some examples are the Gulf of Mexico where the sports/recrea-tional fishermen have succeeded in making the "redfish" and "speckled" trout a sport fish on-"speckled" frout a sport fish on-ty, and they're going after other species. California has just defeated an effort that would have made gilinetting illegal up to 75 miles off shore. In Florida the recreational fishermen want all of the sail-fish and the Blue and White Marlin. In the Great Lakes, as well as Puget Sound and even Alaska, the struggle is over salmon. The sports groups are now hard after the halibut in Oregon, Washington, and Alaska. These are but a few of the

struggles facing the seafood in-

This is a dangerous trend that

This is a dangerous trend that has developed and must not be taken lightly. In the 1950's the recreational fishermen in Oregon said, "give us all the salmon in the coastal streams, except the Columbia River and we'll be happy." They

In the mid 1970's the recreational fishermen said, "give us all the steelhead and we'll be hap-py." They got that, too. In 1987 they again came and

said, "just give us all the sturgeon, salmon, and coho in the lower Columbia and we'll be happy." We say hell no! We've realized

Continued on Page 4

#### Winter Gill Net Season Set

The Columbia River Fisheries Compact established a 30 percent commercial and 70 percent recreational allocation for catches of the 1988 Winter salmon. This is the T-bone of all eating salmon for the year and the public is assured they will be able to go to the market and buy what they want. If certain sports groups had their way only they would be allowed this prize fish. One of the largest returns on record, 97,000 fish is predicted.

Randy Fielder, Operion Fish and Wildlife, Department Plaint.

Randy Fisher, Oregon Fish and Wildlife Department Direct Joseph R. Blum, Washington Fisherfies Department Director, a proved a joint fishery staff recommendation for the 13-day season wi weekend closures in the lower Columbia from the mouth to Keller

The gill-nets will fish Feb. 16-19, Feb. 21-26 and Feb. 28-March 4 with

The gill-nets will itsh Feb. 18-19, Feb. 22-26 and Feb. 28-Marcn 4 with noon openings and 6 p.m. closings during the Intree periods. An eight-day, 12-hour winter fill-net sturgeon fisher, Feb. 16-19 and Feb. 21-26, was aproved in close 1 p. 19-10 and 5 between Kelley Point at the Williamette River mouth and the below-Bonneville commercial deadline. Indian Treaty fishermen got a Feb. 1-March 6 sturgeon

Season.

Almost 75 percent of the salmon entering the Columbia in February
and early March are of Willamette River origin and they are
predominently the large 5-year-old salmon averaging more than 20
pounds in weight. The smaller 4-year-old salmon reach peak abun-

dance in April.

The in-season hearing at 1 p.m. March 3 in the Portland head-quarters of the Oregon Fish and Wildlife Department would examine the salmon landings and whether the gill-net season should be extend-

the saimon landings and whether the gill-net season should be extended to March 5 or 6 in order to reach the commercial allocation. The commercial-catch allocation has been 24 percent for the Willamette run, according to Fisher, but under a Willamette Basin Fish Management Plan recently adopted by the Oregon Fish and Wildlife Commission, it goes to 30 percent when the run projection is for more than 90,000 spring salmon.

#### Now they want the Sturgeon too!

On the 10th day of January 1988 in Corvallis, Oregon, Forrest Neurer submitted resolution #3 to the Oregon Wildlife Federation or "Make Sturgeon and Spring Chinook Game Fish". It says "The Federation should participate in the formulation and fine tuning of an initiative petition to designate the recreational state of the Fishery resource, to prevent glinetting of sturgeon and spring chinook and to provide a selective means of harvesting any of harvesting

means of harvesting any resulting surplus."

In the face of all the facts that were presented to the legislature last April 1987, you would think aguy like this would give up to no, he has only one thing on his mind and that is to stop all gilhetting on the Columbia River. He doesn't know that there are seafood restaurants, fish markets grocery stores, etc. and River. He doesn't know that there are seafood restaurants, fish markets, grocery stores, etc. and the general public that like to have fish on their table. He thinks all fish in the Columbia River should be his to play with. Mr.
Meuret has been retired for years
and doesn't have anything else to do but go fishing. How about the

working man? Besides some sport fishermen, the only people who want the gillnetters off the river are politicians and millionaire sport store operators like Larry Schoenborn, who stand to gain something for to gain themselves.

Last year's sports catch reached an all time high on sturgeon.
The sports caught 61,000 sturgeon and the gillnetter only 11,000 for the public consumption.
Willamette Falls had a count of
54,832 winter salmon in '87, the
fourth highest fish run in history. This count was fish that escaped by the sport fishery. The total run entering the Willamette river entering the Willamette river was 83,400. The sport catch of this run was only 18,800 fish, so you see no matter how many fish in the Willamette run, the sports can only catch a certain perentage. The gillnetters only harvested 8,600 winter salmon for harvested 8,000 whiter salmon for the general public. The fall salmon run in 1987 was the largest in 40 years. In one day alone at Bonneville fish ladders, 40,000 fish went over the dam— does this sound like the fish runs are getting smaller

#### Groups push for BPA commitment to fishery

IShery

Fishing interests Monday Feb. 1, 1988 asked the public to support full funding of efforts to restore Columbia Basin fish and wildlife populations damaged by hydroelectric power.

"We want the people of the region to know that higher rates have nothing to do with the fish and wildlife program of the Northwest Power Planning Council," saids S. Timothy Wapato, chairman of the Columbia Basin Fish and Wildlife Authority, which represents fish and wildliffe agencies and fishing organizations.

"The reason for increasing rates," Wapato said, is that the cost of Washington Public Power Supply System nuclear plants "has been rolled into the rate base."

Wapato, also executive director of the Columbia Bivar Index Tables.

Wapato, also executive director of the Columbia River Inter-Tribal Fish Commisson, challenged Bonneville Power Administration Jim Jura for saying at a Jan. 19 forum that the BPA might have to choose between lower power rates and programs that aid fish and energy con-

servation.

The power planning council program to restore fish and wildlife lost to the development of hydroelectric dams costs BPA about \$30 million annually, or only 1 percent of all BPA costs, Wapato said, "If your average utility bill is \$60 a month, you're paying 50 cents for fish and wildlife. That 's hardly a budget buster, "he said at a news conference. "Without a strong commitment from BPA, the fish and wildlife program won't be able to make up for the losses caused by the hydroelectric system," said Randy Fisher, authority vice chairman and Oregon Department of Fish and Wildlife director. "The program is not one of BPA's descretionary expenses. If was mandated by Congress as part of the Northwest Power Act of 1980," Fisher said.

More than 140 million fish have been lost since the first dams were built, Fisher continued, and the annual effect is 5 million to 11 million fewer adult salmon, steelhead and other fish.



Official Publication of the

#### COLUMBIA RIVER FISHERMEN'S PROTECTIVE UNION

One of the oldest Conservation Unions on the West Coast

Incorporated in 1886 322 10th Street Astoria, Oregon 97103

Phone 325-2702 DON RISWICK, Editor

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. Roger Jolma 2nd Vice President .

P.O. Box 922, Clatskanie, OR 97016 c/o CRFPU, 322 10th St., Astoria, OR 97103

Anyone in the Continental United States may receive this publication FREE by simply mailing in your correct address and Zip Code number to C.R.F.P.U., 322 10th Street, Astoria, OR

#### Foreward

This paper is being published for the express purpose of keeping the public and the labermen intorned of the true facts and the labermen intorned of the true facts and in anguer to the Columbia River Fishing Industry and all people connected with it. The advertisements which apear withinmake if financially possible to publish this paper and we hope you will in return patronize and thank the business people who contributed to this cause. Anyone who wishes to contribute articles, pictures, stories, or ads, please contact the editor or Fishermen's Union office at 322 10th Street, Astoria, Oregon 97103 or Phone 325-2702.

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1263 9th	(300)	040-04

Please Patronize Gillnetter Advertisers A number of C.R.F.P.U. members are representatives on various agencies and advisory boards concerning fisheries issues. A brief directory follows. Members are encouraged to contact individuals regarding specific issues, or call the Union

UNION OFFICE - (503) 325-2702. Secretary Arlene Graham. Hours 9 a.m. to 1 p.m. Daily on weekdays.

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#### I wish to Join the Columbia River Fisherman's Protective Union

Mail \$150 to CRFPU For One Year Membership 322-10th St. Astoria, Oregon 97103 Ph. 325-2702

# Incorporated in 1886

**Snag Dues Notice** Clip out and mail in along with your \$50.00 (Tax Deductible) you will receive a receipt and sticker for your window on your

Anyone fishing from Tongue Pt. to the bar should contribute. We here in the lower river try to keep the drifts clear of snags. We have two 110 fathom, 38 foot deep floater nets which are available for snagging to anyone who pays into the fund and wants to get a gang together to clear snags. Diver fees are \$200 for 6 hour shifts. They will be paid out of

Diver tees are said to 8 hours sints. They will be paid of our the fund, so lets all kick in and take part in clearing the drifts. You all made money this fall and this fund should be a must for all of you. Don't let just a few of us shoulder all the responsibility and the rest of you become free loaders.

#### I wish to pay my "Lower Columbia River Snag Dues"

Name																											
Address																		*		. :	Z.	p					
Boat Na	me If	An	у.								٠											4					
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#### THE UNION NEEDS YOU - JOIN NOW

To all of you who will be taking part in the fishing season and that goes for Youngs River fishermen too, we need dues to keep this organization running and looking out for your fishing interests.

For quite a few years now a great number of lishermen have slid by from year to year without paying. Union dues, you have had a bunch price, some of you holler about price, some of you holler about price, some of you holler about some incident that happened 30 years ago when some other person was in the Union. All these excuses won't help you now. We are not detaing with the past, but with NOW. . Why not join this season and help make our Union strong. Attend our meetings and give us your dues. We don't know what you think, or what policy you wish us to follow if you never come around. We can stand united or we can fall divided. Which way do you want it?

We encourage all part time fishermen also to take an active part in this Union. Because of the chopped up seasons and less fishing days and long periods in between, many fishermen have had to supplement their earnings with other jobs. Don't et that distract you from this Union. We need you as members. Join today and be heard.

Dues are \$150 per year and can be paid in installments.

are \$150 per year and can be paid in installments.

# **Attention Youngs River Fishermen**

A snag fund has been set up to pay for snag pulling in Youngs River.

The fee is \$20 per boat. Fish Buyers will have a receipt book to take your money

Over 50 sinkers were taken during a 3 day period below the Yacht Club bridge and many more remain to be pulled. Please sign up as soon as possible.

#### WHY HAVE FISH AND WILDLIFE COMMISSIONERS

The state of Oregon has seven appointed commissioners to the Fish and Wildlife Department, but what are they good for. They no longer attend the Compact meetings, but delegate their no longer attend the Compace meetings, but delegate their authority to one person, the direc-tor Randy Fisher. The commis-sioners used to get an education from the people who know the facts, but now only read about it in the paper. Most commis-sioners haven't the fogglest idea sioners haven't the foggiest idea what commercial fishing is all about, but would gain some knowledge if they would come to the hearings. Yet these are the people who tell us when and how to fish through one man. People who are commissioners should be appointed for their knowledge of the subject, not for political reisons and take an active part in the decision making.

#### **Ballot Box Biology** drives state into fish business . . .

The Gillnetter caught 8,600 The Gilinetter caught sowning willamette salmon for the general public's consumption in 1987, while the Oregon Department of Fisheries sold 7,600 surplus winter salmon out of the hatcheries, fish that the Gilinetter should have been allowed to

ter should have been allowed to catch for the public.

The State should not be in the fish business. All this goes to show you how politics and Ballot Box Biology works and the general public suffers. When there are large runs of fish, they should be harvested, not curtail-

#### Sea Resources, Inc.

A Non-Profit Community Supported Voc. Ed. Program
For More Fish and Better Fishermen

Sea Resources, Inc. was found Sea Resources, Inc. was founded in 1986 by a group of people
and industries concerned about
our area young people and the
fishing industry. It was incorporated as a tax exempt
group, and took over a long unused hatchery site in Chinook tirst
ed hatchery site in Chinook tirst
hatchery in Washington. Rearing
ponds were reclaimed and
building constructed to house egg
incubation facilities, a class
incubation facilities, a class incubation facilities, a class room, shops for wood working, welding, engine repair, boat building, and a small manager's residence. A voc-ed course in fish culture and fisheries subjects was organized with the Ocean Beach school district, who pro-

vide a teacher.
Sea Resources provides the hatchery manager, a fisheries college graduate who is their only paid employee. Sea Resources Inc., which has about 500 members, leases the facility to the school district for \$1/year. The school in turns pays the utility bills and maintains the teaching areas.

currently we have 16 high school students in the voc-ed course. All of them are interested in the fisheries courses and shop work, and most of the trapping of returning fish, egg taking, in-cubation and pond rearing is done by them. We release fingerlings in the spring and now have about 2,000,000 in the ponds — almost all fall Chinook, some silvers and chum, and plant most in the Chinook river, but many in other small area streams. Our returns small area streams. Our returns this year will be about 1,000 fish, and we get some eggs from Big Creek hatchery. Last fall, we got 20 fish back from Youngs Bay. We welcome visitors and hope you can make it here. As Gene Leach, our President says, we're

continually broke and welcome any donations.

John Rowell, Sec'y Sea Resources P.O. Box 187 Chinook, WA 98614 Ph: 206-277-8229



# A FRIEND OF THE FISHERY RUSSELL BRISTOW

Aug. 1, 1906-Dec. 23, 1987 Russell was well known in Clat-

Russell was well known in Clate-sop County, and many other counties. He worked hard to preserve our natural abatitats, of the mighty Columbia River and the fishing industry. Russell served as Executive Secretary of Columbia River Fishermen's Protective Union for many years and also as Presi-dent and Board member. He was truly dedicated to saving our fish truly dedicated to saving our fish runs and wanted to cooperate with all the user groups. A true Salmon For All Member.

Salmon For All Member.

Mr. Bristow was a member of
Wicking Grange, The Trail's End
Gem and Mineral Citib and a satis
member of the Kiwanis. He was
active in soil and water consensuation and worked to maintain the
tribal rights and customs of the
Warm Spring Indian tribe.
We truly will miss our friend of
many years.

#### Across the Bar

We have also lost three long time

fishermen.

Nick "Barney" Marincovich,
Svenson, Kenny Backman, Clifton; Ed W. Stephans, Altoona,
WA.

Our heartfelt sympathies are to all of the families at this time.

#### District No. 4 **Annual Meeting**

C.R.F.P.U. members met at Humps Restaurant in Clatskanie on Thursday, Deg., 10, 1987. The main concern was whether or not Salmon For All should write a letter to the Sturgeon Task Force. This letter will contains ideas on how to manage the sturgeon resource better. Majority nement voted in favor of the ty present voted in favor of the letter.

The other topic discussed was the importance of preserving drift rights. It was agreed that District No. 2 go on record as being opposed to attempts being anade to disrupt this method or ganized fishing.

New officers elected were John Kallunki, District No. 4 director, Greg Mustola and Jeff Lumijarvi, alternative directors.

#### **Sport Fishermen** Can't Sell Caviar

An article in the December-January issue of National Wildilide erroneously reported that California sport fishermen can legally sell caviar from sturgeon. In fact, it is illegal to buy or sell any part of a sturgeon taken under the authority of a sport fishing license in California.

"Sport fishermen may legally catch sturgeon and remove the

catch sturgeon and remove the eggs for personal use, but it is illegal to sell them," says De-Wayne Johnston, Chief of the Wildlife Protection Branch of the California Department of Fish

#### Associate Members of C.R.F.P.U.

We wish to thank the following Associate Members for their support in 1987 and now into 1988:

Westward Welding & Machine 238 W SR 4, Ocean Beach Hwy Cathlamet, WA 98612

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Astoria, OR 97103 Daniel J. Arnoth
DBA Financial Assets Mgmt.
P.O. Box 209

Astoria, OR 97103 Sundial Travel Service 1030 Duane

Astoria, OR 97103 If you are interested in becoming an Associate member and support our fishery we would be happy to explain it all . . . very easy . Stop by our office at 322 - 10th in Astoria or call 325-2702. Your donation, just once a year, is tax deductible and price is right.

#### Secretary's Report

The Board of Directors of C.R.F.P.U. met with people from Oregon Department of Fish & Wildlife on January 11 in Clat-skanie to have them bring us up to date on what kind of fishing to date on what kind of fishing seasons we are looking at for 1988. All runs look strong, except for the May run of spring salmon which will be down again. The winter run of spring salmon will be the second largest since 1983, around 10,000 fish. The staff will propose a season of 13-15 fishing days for us starting around the 18th of February, with weekends closed, running into the 4th, 5th, or 6th of March. They claim, with the large run returning, we should harvest around 18,19,000 fish. They do not propose a sturgeon season this winter, except in Zone's 4 & 5 above Kelley Point, which area is always clos-Point, which area is always closed to salmon fishing during the winter season.

winter season.

January 28th, a meeting will be held in Vancouver, WA at 10:00 a.m. in the City Council Chambers, to set the winter

season.

Looking at other seasons for the rest of the year, they are expecting a strong run of Blueback returning and that season will be set at the compact meeting on June 20th.

June 20th.

Shad season will be somewhat
the same as last year, May 23 to
June 17th. Outlook for the fall is a

June 17th. Outlook for the fall is a strong salmon run again and a better coho return than 1987. 'I'd say our fishery on the Col-umbia has a bright future as long as we can keep some of those sport interests off our back. These large returning runs can do nothing but hurt their argu-ment, providing they look at the facts.

facts. The facts are, for years now the Department of Fisheries, both from Oregon and Washington, have been doing their utmost to make the rivers and streams better for sports fishery. They have stocked streams to the point that they have fish returning year round and in some cases, even bringing the fish back down. round and in some cases, even uringing the fish back down
stream and dumping them to give
them a second opportunity to
catch a fish. Steelhead runs have
been built up to record numbers
and now sturgeon angler catches are on the increase every year. So really, it is hard to understand

why there is still some sport inwhy there is still some sport in-terests that think the only way to improve their catch is to do away with commercial fishing and forget about the millions of peo-ple across the country that have to go to the market to get their fish

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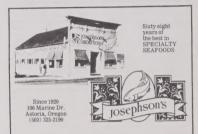
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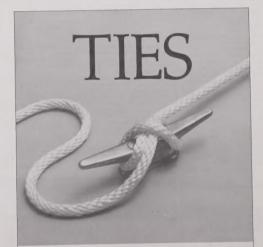
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# Salmon For All

greedy people will never be hap py. They only want more. What next? Our Troll Salmon Alloca-tions? Cod fish, halibut, crab? Sound far fetched? I bet the fishermen in the Gulf of Mexico thought that at one time. We say NO to these greedy peo-

ple, but we say yes to a continued thriving seafood industry. We say yes to an estimated 217 million seafood consumers in the U.S. We say yes to responsible fisheries management and increased enhancement efforts.

enhancement efforts.

Remember, you're not just fishing for yourself, you're fishing for the rights of the consumer. Commercial fishermen

sumer. Commercial fishermen
are "Fishing for America!"
Jim Hogan gave a brief explanation of the 1987 legislative
fights and emphasized the importance of informed legislators
and asked that they regard
Salmon For All as a factual information source of fishery. source formation source of fishery issues. Concluding the presenta-tion were selected segments from the lawsuit filed in Thurston County the day before, October 30, 1987, which alleges that decisions regarding the allocation of salmon in the Columbia River is deep. It compatible of the control of in secret at non-public

done in secret at non-public meetings.

"The state of Washington Department of Fisheries, when managing salmon runs either in Washington regulated or Colum-bia River concurrent waters, has bla River concurrent waters, has operated, and continues to operate, in a private fashion. Specifically, the director of Washington Department of Pisheries, or his deputy director or assistant directors, have engaged in non-public policy discussions with tribal, Oregon discussions with tribal, Oregon and federal officials relation and federal officials relation to management of Washington and Columbia River salmon within state regulated or Columbia River concurrent waters. These discussions have resulted in agreements which control decision making of the Columbia River Compact and the Director of Fisheries. These privately held discussions have resulted in the establishment of frameworks for the season management of Columbia Columb in-season management of Colum-bia River and Washington state regulated salmon fisheries, including non-Indian commercial cluding non-Indian commercial and recreational fisheries, without the opportunity for public participation or open decision-making. The result of the aforestated private, non-public decision-making process is to relegate public meetings of the relegate public Columbia Riv River Columbia River Compact or public regulation hearings conducted by the Director of Fisheries to merely operating as ceremonial acceptance of decisions and policies reached in private, non-public meetings. private, non-public meetings, Said public meetings are entirely a sham in that they give the appearance of state officials being willing to receive comment, testimony, and argument from members of the public affected by their action, while denying them that right in substance." "The meetings which have occurred, and continue to occur,

Shakey's

DiZZA

between the Director of Fisheries, Oregon and federal and tribal officials deliberating, discussing, considering, review-ing, and evaluating management of Columbia River or other washington State salmon fisheries constitute "meetings" for purposes of the Open Public Meetings Act. These meetings, held in private, and not open to the public have been and are being held, without the apparent advice or consect of legal courses, which was the control of the public Meetings Act. Chapter 42.30RCW."
"This companiant does not seek Columbia River or State sam.

Open Fullit assumings Act,
Chapter 42.3 MCCW.

This complaint way Indian
ishermen their full allocation of
salmon reserved by the tribes'
treaties with the United States
government, as interpreted by
the federal courts. This proceding does not contest the
authority or jurisdiction of the
U.S. District Courts of the
Western District of Washington,
U.S. VS. WASHINGTON, Or the
Western District of Oregon, U.S. Western District of Oregon, U.S. VS. OREGON, to the extent issues of Indian fishing rights are properly before the stated courts.
The sole focus of this complaint is
to declare the rights and responsibilities of the parties hereto as to proper conduct of decision mak proper conduct of decision mak-ing relating to management of salmon runs in Columbia River concurrent and Washington regulated waters under pro-cedures and authority establish-ed by state law". We emphasized that much of

the anger and frustration bet-ween misinformed user groups is a result of being excluded from any meaningful role in the decision making system. Idaho Senators Beitelspacer and Hansen requested copies of the lawsuits. When we are successful everyone will benefit. Senator Bietelspacher further expressed an interest in arranging a meeting between Salmon For All and Idaho sports groups. This would be an extremely credible way to explain the Salmon For way to explain the samion for all story that we can and must work together. Copies of the lawsuits were also provided for Representatives Haugen, Hanneman and Hanlon. T-shirts and fact books were also provided to all members. Vital political in-troductions were made that may prove valuable in the future. It

Oregon state Representative Tom Hanlon added these words:

Tom Hanlon added these words:
"The Pacific Fisheries
Legislative Task Force, was,
formed for the purpose of promoting a regional approach on
fisheries issues which obviously
go beyond state lines. We met in
Charleston at the Unversity of
Oregon facilities on October 31st
and November 1st Oregon. Oregon facilities on October 31st. and November 1st. Oregon, Alaska, California and Idaho are members: Washington and British Columbia should be. The Task Force meets four times a year and was formed in 1985 as a year and was formed in 1985 as a local property of the pr

areas of legislation including for areas of legislation including for example, the areas of Tributyltins (TBT). Also, during the last Oregon legislative session, the Task Force supported a resolution composed by Representive Hanneman and representive Hanneman and myself supporting continued use of the salmon fishery resource by all traditional user groups including those harvesting by net on the Columbia River. That resolution was used in Salem last April and was welcomed by our properties as four situe to the columbia of the columbia of the columbia and the columbia of the columbia as four situe to the columbia as four situe to the columbia. governor as a four state show of support for all traditional fisheries including our commer-

"During the Charleston meeting Salmon For All spoke to the Task Force for the first time. The Task Force reacted positivethe ly. A future agenda item of the Task Force that was discussed at Charleston was a proposal for some amendments to the Marine Mammal Act that will allow more balance than there presently is. Our Task Force has the Chairman of the Pacific Mar Fisheries Commission on Marine Assemblyman Felando of California. All of the sixteen Task Force members are experienced legislators who are well educated in fisheries issues. The next Task Force meeting will be in early 1988 and will be held in California 1988 and will be held in California (we alternate meeting places between the states). When we have the date and city of meeting it will be published in this newsletter. Salmon For All and the Pacific Fisheries Legislative Task Force have begun their relationship on a very positive

#### Local News -District #5

Lotsa activity with the arrival Lotsa activity with the arrival of smelt — good prices, so gillnetters are trying to capture as 
many as possible before smelt 
enter Cowlitz and the vicious 
under-cuting of price takes 
place. Too bad the dippers 
couldn't get together so everyone 
could make money from the fresh 
market. market

There is a renewed sense of op-There is a renewed sense of op-timism about gillnetting with much activity in the live of the sense being pursued, new boats being built, nets ordered and older boats fixed up. Westport Drift spent five days in late November and early December, removing pulp log sinkers that Wauna mill lost out of their log rafts.

of their log rafts

Mark Laukkanen 205 N. Welcome Slough Cathlamet, WA 98612

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What is the continental shelf? The edge of the continental netf, where the bottom begins to slope steeply, most commonly is found at depths between 360 and 480 feet

At the time the shelf re ceived its name, it was thought to be essentially flat; it was now geologists know that the continental shelf has basins, commental shelf has bashs, ridges, and deep canyons. Compared to the deeper ocean floor, however, the relief is gentle; hills and basins on the shelf usually do not exceed 60 feet.

The continental shelf width varies from practically nothing to several hundred

miles. The shelf along th east coast of the United States is many times wider coast. If all the continental shelves of the world are included, the average width is approximately 40 miles.

The shelf sings continental shelf sings continental shelf sings continents.

The shelf slopes gently, at an average drop of 12 feet per mile, from the shore to an average drop of 12 teer
per mile, from the shore to
the continental slope. In
contrast, the grade of continental slopes is 100 to 500 feet
per mile. About 7 percent of
the ocean is undertain by
continental shelves. These are the areas where intensive mineral exploration is now being conducted.



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# **Fishermen**

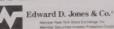
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#### United Kingdom's system kills incentive to sue

Sunderland Marine Mutual Insurance, the major insurer of tishing vessels in the United Kingdom (U.K.), has expressed in the United Kingdom (U.K.), has expressed to the control of the National Council of Ishing Vessel Safety and Insurance. Nixon says that Ocean Marine Underwriters, a Warwick, R.I., firm, and a West Coast broker appear to be interested in making Sunderland's program available to U.S. fishermer. How does the U.K. program work? The vessel owner buys

How does the U.K. program work? The vessel owner buys personal accident insurance for his whole crew, skipper included. The policies do not bear the names of individual crewmen; thus, if there is a change in crew, all the men remain covered. Some vessel owners charge out should be considered to the control of the contro

wages.
The goldey provides 24-hour coverage to a crewman, Watson Coverage to a crewman, Watson the coverage to a crewman, Watson to the coverage to a crewman to the coverage to a car accident and also when the cover the insured in the event of a car accident and also when mediately compensating an immediately compensating an immediately compensating an immediately compensating and the compensation of the compensation of the coverage of the coverage to the coverage of the co

gram.
Despite the personal accident policy, the United Kingdom does not bar an injured fisherman from suing a vessel owner. "But why should he?" says Walson. "There is no incentive to sue, also, the court awards for industrial injuries are much lower in the United Kingdom than they are in the United Kingdom than they are in the United States."

Susan Pollack

Susan Pol

#### Did You Know? ...

- Columbia River Fishermen's Protective Union is the oldest organized group of fishermen. It was organized in 1884 and is still going strong.
- Bonneville Dam was completed in 1938 and Grand Coulee in 1941.
- In 1965 Soviet trawler appeared off the Oregon Coast. Action by fishermen succeeded in obtaining a 12 mile fisheries zone.
- a 12 mile insideries 2008.

  \*\*By 1974 there were Soviet,
  Japanese, North Korean, East
  German, and Polish Irawler
  fishing in that zone. 100 years
  after the innovation of canned
  salmon, a new invasion had taken
  place in Pacific Coast Fisheries.
- In 1976 the Fishery Management and Conservation act of 1976 extended the fishery conservation zone from 12 to 200 miles.
- valion zone trout is well as two marvelous, control to marvelous, cookbooks for sale. "Strictly Fish" by The Northwest Flahermen's Wives Association and "Seafood Symphony" by Pacific Coast Fishermen's Wives, A nice gift for someone



#### Status of the 1988 Willamette Spring Chinook Run

Different known data concerning the returning age classes of spring chinook from the previous year was used to predict the number of spring chinook entering the Columbia River, destined for the Williamette River during 1888. Separate predictions were developed for age 4, age 5, and age 3 and 6 fish. The validity of the technique used comes from the accuracy experiences in past years.

#### METHODS

The method used in predicting the age 3 and 6 fish, since the numbers are so small, is simply to look at the average return over the past 10 years. For these two age classes this method is very accurate. In predicting the age 4 and age 5 fish several groups of data are for the predicting the age 4 and age 5 fish several groups of the several groups o

#### RESULTS

The prediction of the number of Willamette spring chinook entering the Columbia River in 1988 are as follows:

Estimated number of age 5 fish equals	
Estimated number of age 4 fish equals	
Estimated number of age 3 and 6 fish equals	
Estimated total run size equals97,000	

#### Williamette Spring Chinook Entering the Columbia River, 1983-87.

Projected Return t Columbia River	o Actual Return Columbia Riv	
	1987	
35,000 5's 41,000 4's 2,000 3's & 6's	34,100 5's 57,900 4's 2,100 3's & 6's	25,300 5's 56,200 4's 1,900 3's & 6's
78,000	94,100	83,400
	1986	
30,000 5's 33,000 4's 2,000 3's & 6's	23,500 5's 46,100 4's 3,400 3's & 6's	16,700 5's 42,500 4's 3,200 3's & 6's
65,000	73,000	62,400
	1985	
35,000 5's 33,000 4's 2,000 3's & 6's	30,300 5's 35,600 4's 2,200 3's & 6's	21,000 5's 34,100 4's 2,000 3's & 6's
70,000	68,100	57,100
	1984	
30,000 5's 33,000 4's 2,000 3's & 6's	38,600 5's 43,600 4's 2,000 3's & 6's	31,200 5's 41,700 4's 1,600 3's & 6's
65,000	84,200	74,500
	1983	
30,000 5's 40,000 4's 2,000 3's & 6's	25,500 5s 35,500 4's 2,200 3's & 6's	19,950 5's 34,100 4's 2,050 3's & 6's
72.000	63,200	56,100

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#### **Industry must boost lobbying effort** to counteract sport-fishing pressure

The future role of the U.S government in fisheries manage ment and development is cui ment and development is cur-rently being determined. Noticeably absent from the policy discussion and formulation is the U.S. seafood industry. On the other hand, recreational fishing interests are working closely with federal deventions. closely with federal departments with fisheries responsibilities. Congress, at the same time, is focusing attention on food inspec tion and trade issues, which could revive discussions of shifting fisheries to the export-minded Department of Agriculture, the agency also responsible for the mandatory meat and poultry in-

spection programs.
Although inspection and trade
raise the issue of what departraise the issue of what depart-ment should have jurisdiction over U.S. fishery resources and utilization, there have been strong undercurrents surroun-ding the issue for many years. The activities of the National Marine Fisheries Service (NMFS), which currently (NMFS), which currently oversees marine fisheries, now include conducting scientific research to determine harvest levels, allocating resources among user groups, and to a modest extent, offering fisheries development, marketing, and trade assistance. The National Oceanic and Atmospheric Ad-ministration (NOAA) within the Department of Commerce houses NMFS and has since 1970. Prior the Bureau of Commer to that, the Sureau of Commer-cial Fisheries in the Interior Department managed fisheries, and some fisheries programs were originally under the direc-tion of the Department of

Currently, sport-fishing organizations are working to establish a National Recreational Fisheries Policy within the Interior Departrecreational groups are engaged

ficials to further increase the in-fluence of recreational interests fluence of recreational interests in that agency's policy making. Recreational fishing organizations are seeking an advocavagency to promote the sport-fishing agenda. One of the items on the agenda is to limit commercial fishing access to certain areas or species and to restrict types of fishing gear. In June 1987, the National Fisheries In-stitute (NFI) completed an evaluation of resource-access conflicts that more fully evolains onflicts that more fully explains

Among the findings of that Among the findings of that study was an indication that user-group conflicts between commer-cial and sport fishermen are oc-curing in virtually every region of the country. Based on surveys of industry members, most com-mercial members, most comot industry memoers, most com-mercial members were concern-ed that there has been an inade-quate response to political ac-tivities undertaken by sport-fishing organizations. Politics have been injected to the detri-ment of commercial fishermen in conflicts avanting from GML radconflicts ranging from Gulf red-fish to Great Lakes perch to Oregon salmon. These disputes are representative of so many other conflicts that involve local groups or national organizations,

Until now, it has been difficult to see user-group conflicts as a national issue. That is changing, however. The concerted efforts of sport fishermen to redefine federal policy to enhance and promote recreational activity at

promote recreational activity at the expense of U.S. seafood con-sumers and the commercial in-dustry snap the issue into focus. A look at the Sport Fishing In-stitute's (SF1) May 1987, newslet-ter article, "Parity?", offers in-sight into their doctrine. They say that non-discriminatory treat-ment of recreational and com-mercial fisheries means parity. Parity, though identified as a "priority" issue, is not the end of the line. With regard to certain fisheries, game-fish status should be conferred. That is, exclusive access should be reserved for one segment of the populace. It is ironic that SFI defines parity as "non-discriminatory treatment of recreational and commercial fisheries" as the stepping stone to

achieving an allocation system that is discriminatory. Marine sport fishermen are participating in the development of a National Recreational Fisheries Policy with the In-terior's U.S. Fish and Wildlife Service. Interior has prepared a draft outline with the help of a steering committee that includes recreational representatives. The draft iden-tifies thre needs for designing a National Recreational Fisheries Policy: a need to reduce fragmentation in policy develop-ment; a need to advance the precepts of recreational fisherles; and a need to recognize important socioeconomic aspects of recreational fisheries.

recreational fisheries.

It is not coincidental that development of a National Recreational Fisheries Policy inrecreational risneries Founcy in-cludes provisions relating to marine fisheries as well. This may signal a preference by sport-fishing organizations to shift jurisdiction from Commerce to Interior. If so, marine recrea-tional interests are hedging their bets.

bets.

Sport-fishing groups are attempting to negotiate a better
deal from Commerce. At a June
1987 meeting of NMFS officials
and recreational fisheries interests, sport fishermen demanded more federal grants, more
representation on lishery
management NMFS budget for
sport-fishing programs and a
larger allocation of fishery
resources. Sport-fishing groups
insist on new development intitiatives to serve their interests
but argue against continuing but argue against continuing NMFS programs that encourage efficiency in commercial harThe rhetoric of the sport fishermen is familiar. NMFS is accused of mismanaging fisheries and employing unsound

conservation methods to achieve some undetermined benefit for seafood producers. Recreational fishermen use "conservation" as a way to ex-clude commercial fishermen from certain fisheries or to ban particular types of fishing gear. particular types of fishing gear. Now the term "parity" can be understood to mean control over the actions of a federal agency.

The most ludicrous demand of all is for more sport-fishing ap pointees to the regional fisher management councils. management councils. These councils, comprised of private citizens, develop management plans for the nation's fisheries. Virtually every plan in effect regulates predominately commercial fisheries. On several key councils however commercial fisheries. councils, however, commercial representation is grossly inade-

For example, although Florida is among the top five producers in value of seafood landings, not one Florida commerical fisherman holds a seat on either the South Atlantic or Gulf of Mexico coun-cils. Florida holds three seats on each council. Commercial fishing fares poorly in the Southeast as a whole. Only the shrimp and menhaden fisheries enjoy any

representation.

The seafood industry is not yet playing an active enough role in the ongoing debate about the functions, role and future of federal fishery resources.

federal fishery resources. That must change.

Members of Congress will determine the direction of federal policy. The seafood industry must understand the risks of allowing sport-fishing groups to continue unchallenged in lobbying for changes that reduce the viability of commercial fisherment to meet market demands.

men to meet market demands.

The commercial industry must focus on this issue now.

Lee Weddig
Executive Vice President
National Fisheries Institute
Washington, D.C.

#### District 2 & 3 **Annual Meeting**

Meeting on November 18, 1987, was called to order at 7:00 by Jim Peter. Greg Neitzel gave a y informative update on

Jim Hogan reported on Pacific Fisheries Legislative Task Force meeting in Charleston, Oregon on Oct. 31. TBT - Marine Debris - Of-Oct. 31. TBT - Marine Debits - Or fishore Mining - Columbia Basin Authority and more. Jim also reported the semi-final sturgeon catch at 60,000 sport and 8,500 commercial and 80% of the sport catch was in the 3 to 4 ft. range.

Greg Neitzel also reported on the Marine Mammal Act. It is coming up for review. Proposed changes are to change the world 'protect" to manage and stril world the world "NONLEATHEAL."
These changes would allow the various states to regulate the

various states to regulate the marine mammals.
Educational video's were also discussed. We thought it would be a good idea to make a video of guilnetting from the 1800's to the present time showing positive aspects of commercial fishing and how the gülnetters have fought to stop pollution and build hatcheries to rebuild the salmon runs.

Discussion was held on the need to hire a full time Salmon For All manager. Jim St. Peter was elected district represen-

Bruce Crookshanks was nominated for President and Jack Marincovich for Executive feeting was adjourned at 9:25

-Bruce Crookshanks

Isn't it about time someo offered a course in coping with people who've had a course in assertiveness?

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Pilot Boat "Joseph Polutzer moored near west end of Sanborn Docks - Astoria, Oregon Around 1910 -Notice linen net racked lower right hand corner.

#### What is surimi, anyway?

Surimi is a white, odorless, vir-tually tasteless but highly nutritious paste made from fish that has been intricately minced and washed according to a 500-year-old process. It isn't an end product, but a raw material used

product, but a raw material used by food engineers the way a baker uses flour. Today, with the age-old art mated to modern refrigeration, surimi has proven to be the most malleable form of protein around. Food technologists envision a seemingly infinite range of potential uses. It has long played a big part in the Japanese diet, and American consumers are demonstrating a willingness to experiment with surimi-based foods that have appropriate blends of taste, texture and ap-

pearance.
The 15th century Japanese used a process called kamaboko to create a fish jelly or dough that could be wrapped around a bam-boo stick and cooked. The result was a hollow tube that could be was a notion time that could be sliced into doughnuts called chikuwa, or bamboo circles. To-day, Japanese seafood processors transform fish into an intermediate product called surimi, which still serves as the raw material for the manufac-ture of Kamaboko and chikuwa, along with hundreds of other

foods.

The ancients didn't know why, but the process kept fish from spoiling. Today's food technologists understand that the technologists understand that the washing is a critical part of the process because it removes soluble fals, oils, minerals and inorganic sails that would otherwise promote deterioration. The minering, washing and straining, washing and straining create a product with the consistency of Cream of Wheat that is about 75% water and 165% protein. It contains 105%, fal, no car. howeversets and no cholesten. tein. It contains .02% 1at, no car-bohydrates and no cholesterol. A 100-gram portion has 80 calories, compared to 350 for a similar por-tion of beef, or 107 for 100 grams of skinless chicken breast. It has a low-density lipids that are pro-

bably good for your heart. It is, in short, an ideal product for today's health-conscious con-

sumer.

Come now, you counter. Who is going to eat fish mush, even if it is

The food technologists have the answer to that, and some of the biggest food companies in the country are currently at work in the lab, investigating new pro-ducts. Surimi has binding, texture and flavor characteristics that make it more versatile than soy or vegetable proteins and

soy or vegetable proteins and enable it to compete with beef, pork, poultry, seafood, grain, vegetables and dairy products. Are you in the mood for cheese, ham, mushrooms? How about lobster, shrimp or crab? Surimi will do it all. Here we have surimi

extruded like spaghetti noodles. Not your style? Then how about bread or bacon, burgers or sausages? How about soups, sauces, fortified dairy products, mutritous snacks, pet foods, provegetable and fruit concections, prowdered surmin as a muttional supercharger in baby food, diet supplements or vitamins? Nothing whet your appetite? Then how about surimi candy? Then Japanese like itt. So, how do you make this miraculous stuff? Start with whole, gutted lish. Make sure it is a many supplements of the start of

and carefully with all the entrails removed. Feed it into a meat/bone separator to distinguish meat from skin and bone, wash it three to six times, dewater it in a screw press and strain it smooth.

strain it smooth.

Because you've washed it carefully, it has a high gel strength, or ashi, which means it stringth, or ashi, which means it will fetch a high price. The washing has reduced the yeld to a level that may seem unacceptable at first, but the reward is the ashi that enhances its storability and provides the texture potential for innumerable end products. end products.

Once the primary processing has been accomplished, surinu can either be sold directly to a converter or augmented with "antifreeze," cryoprotectants like sugar, salt and sorbtot, that will preserve the ashi for up to a year in frozen storage. Then, it can be thaved and converted into secondary products that will can be thaved and converted into secondary product. The Japanese maintain that its creation requires artistry. The brash Americans contend that they can accomplish the same result with technology, and they intend to try.

- J. Sabella



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#### Then again, you might like them chased away

BY Grant Donaldson Shark researchers at the Uni-versity of Miami are convinced they have at last found a material that stops sharks dead in the

water: soap.
But before you run out and load your boat with Tide or some ioad your boat with Tide or some other favorite detergent, you'd better wait until the scientists find out which soap works best, which may take up to five years. During a two-week period in 1981 and for two weeks this summer, Dr. Samuel Gruber and bir, collearus. Filian Lidkin.

summer, Dr. Samuel Gruber and his colleague, Eliahu Zlotkin, tested several types of industrial soaps (surfactants) on lemon sharks. In every test, the sharks were repelled, say the re-

The sharks typically writhed in agony, locked their jaws and became disoriented when sodi-um dodecyl sulfate (SDS), an ingredient in industrial was squirted in their

This (SDS) encourages

I mean, the sharks, the sharks as should not be ball and the next instant is on the bottom." Says 6 robby could be used as an effective shark repellant was an offstoot of research done in 1972 by Dr. Eugenie Clark, who found that the common Red Sea sole seemed to be immune from shark attack. This confirmed the long-held theory that there must be some species of fish with built-in protection from sharks. Clark found that, when threatened, the sole ejected a milky substance into the water that repelled sharks. The substance, now called parlaxin, was found

now called pardaxin, was found to have the strength of cobra venom. In large doses, it is capable of destroying the shark's

capane of destroying the shark's sensory organs, causing death.

Since 1972, pardaxin has been studied in depth. "Everything they dumped the stuff on was wrecked, destroyed; the cell membranes exploded," says (Explor.

Unfortunately, pardaxin's bemmeal makeup—consisting of 182 amino acids—is too complicated to be reproduced synthetically in the laboratory, so it can never be a source of shark repellant for humans. But during the research, it was noted that some industrial surfactants have properties similar to those of pardaxin. Last year, Zlotkin suggested that he and Grubet fest them on sharks. They were astounded at the results. pardaxin's

The surfactant they are cur-rently using is 10 times more powerful a repellant that pardaxin

pardaxin.
"I'm absolutely convinced it
will work. This stuff dissolves
cell membranes. And no shark is
going to want to get its cell
membranes dissolved. Its sensor
organs will tell it that something

organs will tell it that something is wrong, and it will turn around and run," explains Gruber. The apparent effectiveness of SDS is a breakthrough that has been a long time coming. Since the early 1849's, the U.S. Navy has spent hundreds of thousands of dollars trying to find an effective shark repellant to save the lives of downed pilots and the lives of downed pilots and the same properties. the lives of downed pilots and

During World War II, fliers were issued packets of Shark Chaser, which was supposed to camouflage the victim in a cloud of dve that smelled like rotten

shark meat.
Shark Chaser was issued based on the premise that sharks hate the smell of rotten shark meat. The dye worked fine in laboratory tests but failed in ocean trials. Sharks ignored the repellant, and sometimes they are entire cakes of the stuff.
Over the years scientists also

Over the years, scientists also have tried many different poisons as well as the tape-recorded sounds of killer whales to discourage sharks, but nothing has worked. "This (surfactants) is the only

"This (surfactants) is the only thing to come along that we would even, bother testing," says Gruber. He reports he accidently killed one of the lemon sharks when the exposed the fish to two doses of SDs in one day. The doses are only 4 cc in volume, about what a person receives when getting a shot.

Although he feels he is on the

Although he feels he is on the right track, Gruber estimates it will take another five years before the material becomes commercially available. More testing will be done to find the best surfactant in terms of sensitivity, and to learn what organ the material attacks. Then Gruber will tailor some chemical molecules so he can determine the least amount of material that the least amount of material that

He says, "There's no question in my mind that it stops sharks. We just need to find out which surfactant to use and how much

#### Sturgeon Sting

VANCOUVER — Three anglers from the Columbia River region between Washington and Oregon were arrested Sept. 15, 1987 for the unlawful sale of sport-caught sturgeon. More arrests may follow, according to fisheries patrol agents from both states. They say as many as 26 other people may be in the control of the property of the sagents began in the time.

involved.

In June, the agents began
posing as sport fishermen below
the Columbia's Bonneville Dam
after other anglers in the area
reported the illegal sales. The
suspects arrested so far
allegedly sold or set up sales of
sturgeon to individuals of
private consumption.

"We are following other leads."

private consumption.

"We are following other leads that may take us to one supermarket," says fisheries patrol officer Brad Young. "This reace is a large one in the fact that there are many individuals involved, yet it wasn't any organized activity. The suspects independently." The suspects independently. "The suspects lower prices than those companded by legal, commercially caught sturgeon. Current law restricts the use of fish caught during sport seasons to personal consumption.

Sharp Drop in Antarctica's Ozone worries scientists

Scientists are keeping a wary eye on an unexplained and steadily worsening drop in the oxone level over Antarctica. For one month every year, the protective oxone layer which screens out damaging ultraviolet radiation from the sun, decreases as much as 60 percent over an area as large as the over an area as large as the United States. Totally un-predicted by sophisticated forecasting techniques, the ozone hole has been getting steadily larger and more serious since it was detected in the mid-seventies. Theories about its causes range from periodic changes in the sun's ultraviolet radiation emissions, which can affect production of new ozone in affect production of new ozone in the atmosphere, to release of chemicals from the oceans in the southern hemisphere. Most worrisome is the possibility that the drop signals unexpectedly rapid destruction of the Earth's entire ozone layer because of entire ozone layer because of increasing worldwide use of chlorofluorocarbons.



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# **Economic Value Concepts and Salmon**

by Hans D. Radtke, Ph.D. Agricultural and Resource Economist

The following is an explanation of economic concepts and terms commonly used in economic analyses of natural resources such as salmon. It is important to understand these concepts so as not to misuse results from one specific analysis to cover broader olicy questions

Meaning of Value

More often than not, when economists are asked about the value of salmon there is a presumption that an allpresumption that an all-encompassing "one number" measure of value can be developed and even applied across the board on a per fish across the board on a per tism basis. The usual question that people want answered is, "What is the value of (a) salmon to Oregon's economy?" Un-fortunately, there is no correct way to provide a single, simplistic answer to this ques-

In the analysis of policy alter-natives we are interested in the value of products and activities which increase or decline due to our choice among the alter natives. It may not be particular ly helpful to try to value the salmon themselves. That value varies over time, from area to area and by use.

Value estimates are most heipful to decision-makers when (a) the specific measure of value estimated is clearly defined and estimated is clearly defined and understood, (b) the value estimates for all alternatives are expressed in comparable units and (c) potential gains are ex-pressed in terms comparable to potential losses. Furthermore, it is not the total value of affected activities which is of interest, but activities which is of interest, but the change in value resulting from a choice among policy alter-natives. The most important questions in valuing alternatives are: Who is involved? What are the objectives? What activities are being changed? What is the causal chain from action chosen to objectives affected? What scales are to be used to measure benefits (gains) and costs tivities which is of interest, but benefits (gains) and costs (losses)? How can value informa-tion be estimated? What assess-ment is warranted from the information collected?

Valuation and Salmon Allocation valuation and sammon anocation.
There are no measures of value per commercially-caught salmon which imply that allocation decisions should be biased in one particular direction under all circumstances. A common mistake is to title alloged measures of the is to cite alleged measures of the gross values of salmon is a justification for a particular allocation. Thus, for the commercial fishery, value is often associated with total receipts at one or more market levels. For the recreational fishery, value is often equated with angler's ex-penditures (costs) made or recreational fishing activities.

Although there are several types of values that may be used in an analysis of alternatives, two economic measures are commonly applied to changes in activity levels associated with allocation alternatives. The first measure, which is appropriate for benefit-cost analysis, is net economic value. Roughly speaking, the difference between the gross value of an economic activity and the costs (properly defined and measured) of carrying out that activity is (properly defined and measured) of carrying out that activity is called net economic value. The second measure is the impact on community income. By income we mean the income people receive in the form of wages, salaries and proprietary income

salaries and proprietary income (profits).

I mention the above concepts because they are frequently misused by non-economists or poorly trained economists. The net value concept is used as a means to analyze public investments such as hydroelectric dams, water conservation, fash enhancement projects, etc. Net economic value concepts can be

without misrepresentation on small defined projects when a response to a certain project can be defined. e.g. as a result of a dam, elec tricity production can be increased (increased value) but fish production decreases (decreased value). These values are mostly

value). These values are mostly misused in the aggregate. I am not aware of any credible economic study that would allocate all salmon on the Columbia River to one user group over another. The concepts of net value should only be used on a "marginal basis."

"marginal basis."

The other economic concept is that of economic impact. This can be used to answer questions such as: What amount of personal income is created in a community as a result of a certain ac-

munity as a result of a certain activity?

I am enclosing for your information two papers prepared for the Oregon Department of Fish & Wildlife: "Coastal Community Impacts of the Recreational/Commercial Allocation Community Impacts of the State of the Commercial Allocation of the Commercial Recreational Allocation of Willamette River Spring Chinoki." Both these papers suggest key considerations in any policy changes. For the first paper, these are: "One of the most important things to understand concerns comparison of the estimates presented for commercial fishing, to those for recreational fishing, to those for recreational fishing, to those for recreational fishing.

to those for recreational fishing.
The commercial estimates are for income impacts per fish. The recreational impacts are for income impacts per recreational

come impacts per recreational fishing day.

Historical data suggests that each recreational fish "sup-ports", on the average, roughly one day of commercial fishing. It is tempting to conclude that each additional recreational fish is tempting to conclude that each additional recreational fish would produce a community income impact of at least \$36. Further, it tempting to compare the \$36 figure to the \$16-18 income impact. figures for a commercially would appear that an unambiguous case for reallocation from commercial to sport has been made. This could be an incorrect inference. correct inference.

cornect inference.

Suppose a large "block" of coho is reallocated from the commercial to the recreational fishery at the same time the daily bag limit is increased to six fish. As a result of the increased bas limit, suppose the average catch per day increases to three (3) coho. In effect, the income impact, per suppose the average catch per day increases to three (3) coho. In effect, the income impact per suppose the state of th coho is reduced to \$36/day divided by 3 fish/day or \$12 per sport caught fish, because fewer recreational days were "supported" per sport allocated fish. The \$12 impact is not greater than the \$16-18 per commercial coho impact. This reallocation repeared deep and clearly produce coho impact. This reallocation scheme does not clearly produce coastal community income.

This hypothetical example has

This hypothetical example inso some implications for the magnitude of reallocation and the structure of recreational regula-tions which may accompany it. Simply put, the community in-come impacts of reallocation de-pend on the effect on angler effort and tourism induced as a result of and tourism induced as a result of the reallocation. It is the addi-tional effort and resulting expen-ditures in the coastal com-munities which can produce positive and significant impacts. Several policy variables can in-fluence the results: 1.1 Total number of fish allocated to the recreational fishery. (Does the number exceed the amount which can be utilized

amount which can be utilized under reasonable bag limits and season lengths?

- and season lengths?
  2.) Dally and weekly bag limits.
  (Will a one fish daily bag limit stimulate effort? Will a large bag limit "burn up" the total sport allocation without a proportional increase in angler use and tourism?) use and tourism?)
- use and tourism?)
  3.) Timing of seasons. (When are the fish available to various geographical areas? Will the

capacity of tourist facilities

and publicly provided services

the local infrastructure —
at a particular port be sufficient to support additional tourist fishermen? In July? In May or September?

Good specific choices among alternatives for each policy variable could lead to longer recreational seasons, and give both the potential recreational excustomer, and the supporting industry stability and the ability to play ahead. These choices should also be made with some understanding of the likely reductions in commercial-related income. In this way a "balanced" Good specific choices among tions in commercial-related income. In this way a "balanced" set of regulations might increase overall community income and, at the same time, to impose undue hardships (tosses of income) on the commercial sectors and change in allocation will impact specific businesses, it is important that the general community economies can be affected by those changes. those changes.

For the second paper, the key points were:

"Based on the impact models and all other assumptions needed to compare the commercial and recreational impact estimates, the loss in personal income in communities around the gillnet communities around the gillnet fishery is greater than the gain in personal income to communities around the recreational fisheries. Thus, if we use the criterion of community personal income im-pact, we would not advise closure of the winter gillnet fishery. "Both fisheries are premier fisheries in terms of overall con-tribution to the neeple in surroun-

fisheries in terms of overall con-tribution to the people in surroun-ding communities. Eliminating the net fishery would cause a significant loss of personal in-come compared to the potential gain elsewhere. Loss of the net fishery might also affect the structure of the commercial in-dustry and could affect decisions on location of permanent residence by those Oregon gillnetters who brought back an estimated eight million dollars in net income from the Alaskan net fisheries in 1982. fisheries in 1985.

fisheries in 1985.

"On the other hand, it is difficult to recommend a reallocation from the sport fishery to the net fishery. The sport fishery is a premier fishery which greatly enhances quality of life in the metropolitan area. Further, huge least the recommendation of the property investments in equipment, moorage and recreational sup-port business could be affected. The recreational impact esti mates include only trip cost impacts and do not adequately capture the impacts of a potential change in the structure of the recreational fishery and support

In any comparisons of economic impacts of resources, several main points have to be considered. These are:

1.) What is the total amount of personal income generated by the economic activity in question:

2.

change in tion:?

2.) What is the change in economic activity and therefore personal income derived from that activity that

results from suggested changes?
3.) For the community in question, is this an activity that generates personal income that would otherwise not be generated?

generated? General conclusions drawn from studies that investigate nar-row, specific questions should be weighed carefully and with some

skepticism.
Economics, if used correctly, is only a tool to help understand relationships between uses; it should not be used as the only criteria in making policy deci-

-

A youth becomes a man when the mark he wants to leave on the world has nothing to do with



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#### Some thoughts on Columbia River Gillnetting

by Bill Sibbett, Trinity River

A few years ago I wrote in the PSGA newsletter that the new U.S./Canada Pacific Salmon Treaty for Puget Sound fishermen was a very costly trade of Praser River sockeye for "paper" Columbia River fish; fish that I never believed in a million years Continous River has, fish that I never believed in a million years would come back with all the dams, pollution, and other environmental degreedation. I still believe it was, and always will be both an unfair and costly trade. However I may be, and even be both an unfair and costly trade. However I may be, and even the proper lish not returning. The last two years, as we for the present present on the Columbia. Next year is forecast to be good as well. The downside of the good Columbia runs is that they are chinook and colon which are split among more users than the

respect to be wrong only second point of the "pager" fish not returning. The last two years, as we all know, have seen impact the control of the control of

- the old drifts and currently active drifts.

  5. If you are going to fish the River, or any new area, try to talk to some local fishermen to find out the "unwritten rules" location of Drift Rights, open water, etc. It's important or the fishermen you ask to give reasonably good information; if he doesn't then you can't possibly be expected to know where not to fish. Likewise if somebody asks you for information, then it's in your best interest to give them good information. I have usually found that if you give another fishermen good information, they are much less likely to cork you than had you given them a bum steer.

  There is no question but that ANV water or the County of the contraction of the contract

had you given them a bum steer.

There is no question but that ANY water on the Columbia River is public water and a public resource; therefore any fishermen may be able to fish that water according to the recent court ruling. The Common Law status of Drift Rights has yet to be tested in court and probably will be soon to see it a hundred years of a practice legally validates it. For the sake of a peaceful and orderly fishery on the Columbia; for the sake of maintaining the fishing "flow" of the river, 1 strongly, strongly encourage all fishermen who fish the Columbia to respect Drift Rights. If new fishermen ignore Drift Rights verybody stands to lose since Drift Associations will no longer clear drifts and them everybody will tear up lots of gear.

The greatest order and productivity in all fisheries often arises from the unwritten rules, the rules by which fishermen govern themselves and ultimately the destiny of those fisheries.

#### The lowa

At early morning she sailed for

pra,
The sea and to her fate.
Bound for San Francisco
She was to cross the Golden
Gate;
But a mightier hand took the
wheel that night
at the dawn became bleak
and thick;
For she ran ashore, to sail no
more,
On the edge of Peacock anit! On the edge of Peacock spit!

A gale was howling while she

stern, And left it a battered shell. It took the lives her valiant

Not a man left to tell the tale; As the Iowa sank to a watery

grave, To the tune of a howling gale! We cannot conceive the horrors and pain

Her men must have suffered that morn. We cannot imagine the struggle they fought; As they faced the howling

For the sea is good and the sea is bad;

is pad;
We cannot control its whims;
we can only trust to the Almighty God
To forgive us for our sins.

So we say goodbye to the ship and crew, The Iowa that will sail no

more! They have reached a port of a

different sort, And have found a paradise

shore.
A memory lives of that cold gray dawn;
A memory of the sea and her tricks,
Where a symbol lies, of a mast standing high
On the sands of Peacock spit!

-HAROLD L. PHISTER

#### **Drifts and Tow** Heads - 1876

Upper Astoria, Clatsop County, Oregon April 24, 1876

April 24, 1876

At a special meeting of the Columbia River Fishermen's
Beneficial Aid Society, the following regulations for the government of all concerned were
adopted. That the following drifts
and Tow Heads be established for
the fishing season of 1876.
First Drift from Woody Island
to Brownspoint.

to Brownspoint. Second Drift from Brownspoint inside of Snag Island to the 12th

red buoy.
Third Drift from the 15th Buoy

Third Drift from the 18th Buoy to Tongue Point.
Fourth Drift from Tongue Point to a point a little west of Booths Cannery at a place to be designated by a spile or some permanent mark.
Fifth Drift from the termination of the fourth drift to Smiths router.

Sixth Drift from Smiths Point

Sixth Drift from Smiths Point to the Pacific Ocean.

Seventh Drift from the red in the Prairie Channel to Tongue Point up or down.

Eighth Drift the big snag in Chinook Shoot will be considered a Tou Head.

Chinook Shoot will be considered a Tow Head.

The Fishermen in Astoria in council have mutually agreed to bind themselves to be governed by the foregoing drifts and it is expected from boats outside of the Society that they will also conform to the same.

By Order of the Society, omas Dealfry, Secretary

#### Aquaculture Jobs For Fishermen?

Fishermen are often told that aquaculture will present more opportunities for employment than it eliminates. That has not exactly been the case in Norway, despite weeks of debate in the Norwegian Legislature over the Norwegian Legislature over the impact of salmo aquaculture on salmon gillnetters and the numerous regulations designed to protect fishermen's income. Fishermen are losing ground because aquaculture has wooed away their greatest ally—the consumer. In Norway, shoppers no longer need commercial fish-ermen.

Beginning in 1989, salmon gillnetting will be prohibited in Norway. According to the Norwegian Fishermen's Union, Norwegian Fishermen's Union, this move will affect 500 to 1,000 full-time, small boat fishermen who depended on salmon for a third to a half of their total income. The rest of the year, these fishermen use their 30-65' vessels to catch other insofts yessels to catch other insofts Some salmon traps will continue to operate under the 1985 change in law that banned gillnets. in law that banned gillnets

in law that banned gillnets.

Norwegian consumers showed little interest in the debate over the ban as they will be able to buy salmon whether fishermen set their nets or not. "Some specialists and gournets prefer wild salmon, but they were not out in the field tighting," for the inthermen, says Tortlef Paske of the same of the

for conservation reasons. Sport fishermen have also taken their cuts and are allowed only a very reduced season. But as commerreduced season. But as commer-cial fishermen point out, they no longer have a season at all. The sports lobby is very powerful in Norway. It's also very rich. Norwegians are able to 'own rivers' or rather the banks on both sides of a salmon stream and so charge high prices for the right to fish there. Paske says that the govern-ment has not yet established

Paske says that the government has not yet established programs to help gilinetters find other sources of income. "There has been some talk of salmon farming, but no one has gone into it yet," he says. And, he adds, salmon farming may not be the answer anyway.

Many of Norway's original

# Ms-and-Ps salmon farms were established by salmon gilinetters who retired their nets under government programs. But these

government programs. But these folks are beginning to sell out to companies and individuals with experience in business and marketing, says Paske. The need for "capital and competence" has grown so much as the industry expands that these former flash-arrana are finding themselves in a second of the competence of the second of the companies of the second of the sec

expands that these former flah-ermen are finding themselves in over their heads. Some aquaculturists welcome the ban on gillnetting. "I think that will be helpful to the development of sea ranching," says Norwegian biologist Ingvar Huse. "Phyl's impossible now.

"That's impossible now of the gillnet fishbecause

Interestingly enough, the fish ermen's unions also see op-

portunities for their members in ocean ranching, especially that of whitefish, and are following experiments in cod and halibut experiments in cod and hallbut production with great interest. If marine fry are deposited in a fjord to mature, the knowledge of traditional fishermen will be needed to recapture those fish when they reach market size, Huse says Huse says.

-Kris Freeman

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#### Scientists suspect rain, not fishermen, depleted bay's bass

depleted bay's bass
By Brues Stutr
The number of healthy commercial (isheries in Maryland's
Chessipeake Bay is down to a precious few, the shad and perch are gooe, the alewide and blueback are nearly gone and, this year, a moratorium was placed on striped bass. Now, the shad of the study of the state of

onus in the fisheries

We should know by the end of these studies," says Harley Spier of the Maryland Department of Natural Resources (DNR) Maryland, with grants from the federal Emergency Striped Bass Maryland, with grants from the federal Emergency Striped Bass Study, is undertaking work this spring in the Choptank and Nan-ticoke rivers and in the ticoke rivers and in the Chesapeake and Delaware Canal, all major spawning grounds for Chesapeake striped bass. A study in the fresher headwaters will examine waters where herring and

#### Mortality of Larvae

Mortality of Larvae
DNR researchers expect to
verify scattered findings of fish
larvae mortality during the past
few years. It seems that striped
bass and other anadromous
species have been making it to
the seawing grounds and release. species have been making it to the spawning grounds and releas-ing eggs, but apparently the lar-wee that hatch are killed off sometime during the first two weeks of May. At that time, the waters of the spawning grounds are highly acidity is measured by pH. A Acidity is measured by pH. A Acidity is measured by pH. A Acidity is measured to put a Acidity is measured to the con-sidered acidic Striped bass—says. Since a reknown to be highly sen-sible properties of the con-sidered acidic Striped bass—says.

Spier, are known to be highly sensitive to pH. A pH of 6.5 is generall the lowest the fish can tolerate Levels in the Nanicoke have been found to fall to 6.3 and below Levels in the Choptank

"Sports Illustrated"

Catalyst
Under such acidic ctr
cumstances, explains Spier,
aluminum and other dissolved
metals that are toxic to fish are metas that are toxic to fish are more readily mobilized. Larvae exposed to high levels of toxic metals cannot survive. "Since 1980, we have been able to cor-relate the disappearance of the larvae with the rainfall," says

Spiers
What prompted the sudden actien on the acid rain theory was
an article in 'Sports Illustrated'
magazine by Robert H. Boyle. a
senor writer of the magazine and
author of "The Hudson River." In
his spring 1994 piece. Boyle suggested that all the proposed
regulatory actions on striped
bass would have little long-term
effect if the cause of the decline effect if the cause of the decline were not overfishing but, as the evidence he collected showed.

while the \$5-million Chafee committee study on the striped bass concluded there was no smoking gun to be found, no single cause for the decline of the bass, Boyle said the researchers had ignored the available data on acidity's effects on stripers and

other species

the decline of With the decline of the Chesapeake stock, Hudson River stripers are forming a larger and larger percentage of the entire East Coast stock. The researchers said the reason for the health of that stock is the lack of the health of that stock is the lack of the health of the stock is the lack of the health of the stock is the lack of the health of the stock is the lack of the health of the stock is the lack of the health of the stock is the lack of the health of

Boyle, however, pointed to the exceedingly healthy stock of Hudson River shad. This species has been fished continuously and

been (ished continuously and heavily by commercial netters along the river "The most obvious explanation," wrote Boyle, vis that the spawning grounds for structure bass, shad and other fish in the Hudson are highly buffered between the sevent was 7.5 and the high was 7.8, whereas rivers and streams in the Chesangaek are streams in the Chesangaek are the low pH was 7.5 and the high was 7.8), whereas rivers and streams in the Chesapeake are subject to acid pulses." The shad in the Chesapeake are at dismally low levels, and fishing for them was banned in 1980

Nome Answers Needed
"Some pointed questions have
been raised, and they deserve
answers," says John Olney of the
Virginia Institute of Marine
Science (VIMS). Researchers
from VIMS will be out this spring on the Pamunkey River, tributary of the York River and spawning ground for stripe River, a

"In Virginia, we have no evidence that acid deposition is affecting the striped bass, but because the evidence is not available doesn't mean it's not

available doesn't mean it's not happening," sayd Olney. If it is happening, finding a solution will require some na-tional attention. A main culprit in producing acid rain is power plants.

I can count the ones along the "I can count the ones along the Chesapeake on my fingers," says Spier. Studies show that the emis-sions from power plants combine with the moisture in the at-mosphere to create sulphuric acid. The major sources of these emissions are plants in the Midwest.

Midwest.

New York and New England
states have recently sued the
federal government for failing to
take action on reducing those
emissions. Many lakes in the affected states have become highly
actide, and many simply have no
fish life at all.

Though. Salas. Is

fish life at all.

Though Spier is hopeful that scientists may at last be approaching a solution to the decline of the bass, the moratorium on fishing will surely remain in effect. With present stocks of striped bass at such low levels, the moratorium may well make all the difference between the next year clas and extinction for the fish of Chesapeake Bay.

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#### Quick-Broiled Sole Fillets

This recipe also works well with flounder, small fillets of fluke, porgy, red snapper and sand dabs

tablespoon unsaited butter. melted I tablespoon olive oil

I teaspoon paprika I tablespoon fresh lemon juice I tablespoon vegetable oil 4 sole fillets (up to 6 ounces

Salt and freshly ground black pepper as desired ½ cup fresh bread crumbs Lemon wedges
1. Preheat broiler
2. In small mixing bowl, blend

olive oil, paprika and

butter, olive oll, paprika and lemon juice lemon juice select a baking pan just large enough to hold fish oli bottom of pan with vegetable oil, bottom of pan with vegetable oil, harrange fillets, skin side down, in pan. Sprinkle with seasonings and brush lightly with butter. Sprinkle bread crumbs evenly over fillets
4. Place pan four to six inches from heat source. Broil until fish

4. Place pan four to six inches from heat source. Broil until fish is golden brown, five to 10 minutes depending on thickness of fillets. If bread crumbs start to become too dark, reduce heat or lower pan.
5. When done, serve immediately with Jemon wedges. Makes

four servings.

Microwave directions: This recipe does not lend itself to



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#### Despite challenges, the Boldt decision is probably here to stay

like celebrity Infamy, like celebrity, obscures those who possess It. George Boldt had both By the time of his death last spring, the retired federal judge was a household name in the Northwest He was the man who "gave half the fish to the Indians," the author of the Boldt deasan.

decision
Few people today understand
the reasoning behind the influential 1974 ruling. Fewer yet
understood the man himself, who
was described by colleagues as
frail, scholarly and legally conservative. He finished life as a
sort of exile, revitled by many
angry whites and revered by the
Northwest's Indian tribes.

Angry writes and revered by the Northwest's Indian tribes. The latest and most successful of many campaigns to repeal the Boldt decision has been Washington's Initiative 456, Beldt decision has been washington's Initiative 456, which passed with 539, of the voite last. November: The measure lacks the legal force to change the way itsh are allocated, but lends political momentum to the foes of the Boltid decision as they take their case to Congress.

The measure, which appared to "decommerculate" steelhead trout and to enact state policies respecting" Indian treaty rights and natural-resource manage-

respecting" Indian treaty rights and natural-resource management, asks Congress to ban Indians' treaty-protected commercial fishery for steelhead. It also sets up state policies that challenge all special Indian treaty rights and deny the federal presentment's authorities. ty rights and deny the federal government's authority to in-tervene when Indian fishing rights are violated, or in any other matter pertaining to natural-resource management in the state of Washington

the state of Washington
Prominent among supporters
of the measure are a number of
anglers' groups whose salmon
and steelhead seasons have
recently been curbed — as commercial lishermen's were years
ago — to allow Indians to take
haif the harvest and to assure
conservation of stocks. The angry
sportsmen have added the to the
call ishermen have kent some

flame that disgruntled commer-cial fishermen have kept going since the Boldt decision cut their catch in half eleven years ago. Yet many anglers' associations — notably Trout Unlimited — have opposed the initiative and is goals, contending that the only salution for the state's troubled salmon fishery is to cooperate with Indian tribes to reach com-mon goals.

with Indian tribes to reach common goals
Most legal scholars say the inituative work hold up under court
challenge Opponents of the Boldt
decision fought the ruling all the
way to the U.S. Supreme Court in
1979. arguing that the decision
had made "supercitizens" of Indians by giving them more
fishing rights than others. The
high court unbeld Bold!s' interhigh court unbeld Bold!s' interhigh court upheld Boldt's inter-pretation of the treaties Here are some of the major reasons why lawyers think the

Boldt decision is here to stay, culled from dozens of interviews, legal journals and federal court documents

A Property Right

What the tribes possess is not a civil right but a collective property right to half the fish. That was ty right to half the fish. That was the main thing they kept when they signed over most of western washington to the United States in the 1850s. So, as the courts see it, the Indians' treaty right to take half the fish is no more "unequal" than the right of shareholders to receive

dividends. Congress could abrogate the treaties, but so far it has refused to do so. Few congressmen want to go down in history as having voted to renege on the bargains by which the United States secured much of the West from the Indians.

the Indians.

The tribes negotiated as sovereign nations, not vanquished peoples, and their willingness to do so provided the only means to obtain land for settlers without bloodshed. Most members of washington's congressional delegation openly opposed Intilative 456 during the campaign last fall, saying, thorough the control of the c

#### Why Half the Fish?

The tribes retained the right to fish "in common with" the citizens of the territory. This ambiguous wording doesn't seem to reserve half the fish the way most reache understand it today. people understand it today

That language was apparently more clear in the time and context of the treaties. Judge Boldt turned to the 1828 and 1862 editurned to the 1828 and 1862 edi-tions of Webster's American Dic-tionary of the English Language and found the primary definition of "common" was "belonging equally to more than one..." So, he decided, the deal was 50-50 betthe two parties of the

The Supreme Court agreed in the days of Solomon, such a divi-sion has been accepted as fair ap-portionment of a common asset, Anglo-American law has and Anglo-American law has presumed that division when, as here, no other percentage is sup-ported in the language of the agreement or the surrounding circumstances."

The high court noted that the

same "in common with" language occurs in an East Coast fishing treaty between the United States and Great Britain in 1854, about the same time as the treaties interpreted by Boldt This wording has been officially interpreted by the State Department to mean each nation can take half the fish

#### Force of Numbers

Such arguments may sway judges, but the opponents of In-



The fords of Norway

dian treaty rights are as adament as ever initiative 456 was endors ed by the Washington Republican Party, by at least one state farmers' association, by dozens

cope-sates a groups and many others who have little to do with fishing. Some who support the measure fear that Indian land and water rights claims could threaten their cowmerce and properly. Some cover the fish Indians are with the same cover the fish Indians are water water and the same space of th

— I voted for that initiative to respect Indian rights." Whatever their reasons, more than 800,000 people voted for the initiative in November, Proponents of the measure feel that vote is just what they will need to win over skeptical congression. "Those numbers mean a lot," says Barbara Lindsay, exert Lindsay to Protection Action for Washington Now (S/SPAWN), which sponsored the initiative.

Now (S/SPAWN), which sponsored the initiative.
Such numbers are just the sort of thing that caused George Boldt in his final years to wonder bitterply at what he called "the apparent illiteracy" of many washington citizens. He once complained in a "Seattle Times" interview: "They seem not have read the decision or made a real effort to understand what it real effort to understand what it actually provides."

-Brad Warren National Fishermen's Yearbook



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#### Allocation scheme guarantees salmon catch for Ore, anglers

Commercial trollers fishing north of Cape Falcon, Ore, will see their allocations of chinook and coho cut substantially in 1988 as a result of a January decision by the members of the Pacific Fishery Management Council After a paper storm of letters from recreational fishing inter from recreational fishing inter-ests, a round of public meetings and heavy lobbying in the politi-cal arenas of Washington and Oregon, the council voted to accept an allocation plan sup-ported by the sportsmen. The non-indian trollers, al-

The non-indian trollers at ready stage-ring under (ederal, state and tribal management pressure in the division of improving but still weak runs, say they will be huri gravely by the new allocation plan. This year, the entire fleet of about 1,500 boats will fish just eight days in May for chimook and two days in the say the

governments.

The plan must be approved by Secretary of Commerce C William Verity Jr. and enacted under emergency rules since the normal council plan amendment process cannot happen quickly enough to accommodate the coming summer season. The emergency order will be in effect for one vear only, after whether the process cannot be supported by the process of the pro for one year only, after which the regular plan amendment process or an additional emer-gency rule must address the

The allocations will be made under a formula that increases the commercial catch if the runs the commercial catch if the runs are bigger, but essentially guarantees the recreational catch by giving anglers a higher percentage of lower runs. "We've been thying with lower and lower allocations all our lives," said one disgruntled commercial troller "These guys troller "These guys sportsmen) are getting guaran-tees. At some point, we have to distinguish between entertain-

ment and our livelihoods. According to the plan sportsmen will take 50% of the sportsmen will take 50% of the chmook catch if the total catch rsport and commercial) is up to 10,000 chinook. If the catch is more than 100,000, chmook if the catch is more than 100,000, commercial to a sliding scale. In past seasons, the sport catch has been about 40% of the commercial catch. Under the new pathook actic Under the new pathook abundance, the recreational exhaustic commercial catch control of the commercial catch. Under the new pathook abundance, the recreational exhaustic control of the commercial catched the catched the commercial catched the catched t share will increase from roughly

As for the far larger coho runs, the new formula calls for a 75%-25% split in favor of the sport fishermen until the total catch reaches 300,000 fish. At that point the commercial fleet will take 60% and the sportsmen 40%. In recent years, roughly 350,000 coho have been available, and if that number holds in 1988, the anglers' share will increase from roughly 200,000 to 245,000

Buoy 10 Debate

The coho taken by sportsmen in an area known as "Buoy 10" at the mouth of the Columbia River will not be deducted from River will not be deducted from the catch by sport (ishermen eisewhere in the ocean fishery This was a major bone of contention during the monthslong debate on the north-of-Cape-Falcon alloca-

Buoy 10 is three miles offshore and marks the official beginning and marks the official beginning of the in-river Columbia fisheries, which are managed separately from the ocean fisheries During a few days in late August, thousands of sport boats converge on Buoy 10 because the mass of coho milling there for the Columbia spawning run is enormous About 50,000 fish is en

Last fall, commercial trollers threatened to sue if the Buoy 10 catch was not counted in the recreational ocean allocation The court instructed the parties

to reach a settlement under the to reach a settlement under the auspiese of the council and other public forums following a period of open public commentary and suggestion. Several public hearings have been held in the past three months A special committee of troilers and recreational fishermen prepared the options for the council based on these meetings. Shortened recreational

Shortened recreational seasons and area closures have generated considerable public interest and ammossty in Washington and Oregon. Last year, unsuccessful bills were introduced in both state legislatures which would have given sportsmen legal priority over commercial fleets in allocation decisions. The effect of the council decision is viewed by many as less disruptive than a blanket legislature edict, but nonetheless a clear message to the commercial froilers. recreational Shortened

the commercial trollers.
"These allocation changes go a ong way toward assuring recreational opportunity even during times when either cobo or chinook are not widely available." said council member Joe Blum. Blum, the director of the Washington Department of Fishing to the council of the washington Department of Fishing to many allocations are provided the new allocation. eries, supported the new alloca-

tion plan.
Phil Anderson, president of the
Washington Charter Boat

tion plan. Phil Anderson, president of the Washington Cherter Boat Association and a council member, hailed the allocation as "an important first step" to boost the recreational share of the council debate. Andere the council since to the council since his appointment two years ago, voted against the plan. He called for maintenance of the status quo until a more horough analysis of the situation could be made, saying he was uncomfortable voting on the north-of-Falcon allocation of the council since the council since the council since the status quo until a more horough analysis of the situation could be made, saying he was uncomfortable voting on the north-of-Falcon allocation of the council since the cou California.) "I'm a troller and a businessman and I am sympathetic to the recreational interests, but I'm going to oppose the

The voting members of the Pacific council are Anderson; Danbom; Blum; chairman Bob Fletcher, deputy director of California's Department of Fish Fletcher, Opportunit of California's Department of California's Department of California's Department of Fish and Gamer, Joe Easley of the Otter Trawl Commission (Oregon): Randy Fisher, director of Oregon's Department of Fish and Wildlife: Charles National Marine (NMFS) Service regional

Train and windine; Chârtes Fullerton, National Frisheries Service (NMFS) southwest regione (NMFS) southwest regional subsets; Allan Kelly, a private citizen from Jorgan, Rolland Schmitten, NMFS northwest regional director; Richard Schwartz, a private citizen from Idaho; Jerry Thomas, a seafood processor from Eureka, Calif. Seger Thomas, a private citizen from Zalipu, a private citizen from Washington Washington California; and William Yalipu, a private citizen from Washington Enough Fish Several council members prefaced their remarks in support of or opposition to the allocation plan with a statement about the unpleasant nature of dividing too few fish among too many people. Most echoed the sentiment of Dick Hubbard, a California sport fisherman and the chairman of the council's Salmon Advisory Pane! What we're facing here is a situation unlich there are not some statement of the statement of the council in testimony on the council in testimony on the council in testimony on how to share poverty is never an easy task."

an easy task."
"The problem is getting a larger number of fish," said Chuck Hale of the Washington Trollers' Association. "I feel that

being asked to divert our energy into this (allocation) dispute is keeping us from the basic pro-blem, which is getting more fish in the ocean."

blem, which is getting more ish in the ocean."

Another troiler said he felt in the dear is a single said to the dear is a single said to the dear is a single said to the dear it in the dear is a single said to the dear it in the said of the council. "At that the I was optimistic," troiler bonald Cower told the council. "At that time I was doing pretly good and so were the sport fishermen. A lot of good things have come from the Magnuson Act, but it hasn't helped my troil fishery. When the act passed, I was getting six months of fishing, last year, when you figure in the bad weather, I got five days. Things don't add up north of Cape Faicon."

Falcon."
Several others pointed out in testimony that the commercial fishermen, who were the ones who supported the passage of the Magnuson Act, are now the people who are being destroyed by it.

The issue of activity the

The issue of equity between sport and commercial factions

Interest is some of equity Detween sport and commercial factions based on economic value was addressed in much of the public testimony and council debate on the allocation. "I don't know how anyone can say there is a fairness issue here." Said council member Allan Kelly who voted for the new James and the public funds," he argued. "The personal use (recreational) ifshery pays its own way. I would say that if there is a good study of the economics of the troll fishery and the sport fishery, the rrollers would find out where they stand. I've heard the putting fish on the table argument (favoring commercial fishing) for 100 years and it

argument (favoring commercial fishing) for 100 years and it won't hold water."

One council member voted against the allocation favoring sportsmen because of the let-ter-writing campaign and sport trade press editorials alleging unfairness on the nart of the trade press editorials alteging unfairness on the part of the council. "The first time I went chinook fishing was with my dad (on a river in Idaho)," said council member Dick Schwarz. "There were so many you could pitchfork them. That was before the Bonneville dam. That's what we're facing here.

pitchinors them. I make selective the country of th

fish for commercial trollers. The recreational interests also mobilized a substantial press campaign in trade and general interest publications. The sport position, though requently couched in terms of conomic return to the commercial country of positional country of positional country of was 7 to 5. And as the following letter says, the trollers' ordeal is notably not over: probably not over;

"Gentlemen," wrote August Cornelius, a sport fisherman from the Columbia River city of Vancouver, to the council. "I thinky you are being unfair to the thousands of sportsmen in Washington and Oregon. There as lot more sportsfishermen and hey spend a lot of money on tackle, motels, etc. You say the trollers make their living fishing, that it is unfair to take that away from them. Times change ways the control of the contro ing, that it is untair to take that away from them. Times change and things must change, too. Cars put the livery stables out of business and sad as it may be, trollers must give way to the hordes of our citizens who want to lish for recreation. Think fish for recreation.









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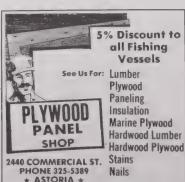
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#### Columbia River Green Sturgeon Facts

#### Description of Species

- Grees sturgeon range from Southern California north along the North American coast to the Aleutian Islands, and from the Amur River south along the Asian coast to Taiwa was the along the Asian coast to Taiwa or and are found primarily in the lower 40 miles of the Columbia River and are found primarily in the lower 40 miles of the Columbia River

#### Regulations and Fisheries

- Maximum size limit of 6 feet for all fisheries
   Minimum size limit of 4 feet for commercial fisheries
   Minimum size limit of 3 feet for sport fisheries
   Minor sport catch of 4-500 annually

- Less economically important than white sturgeon; incidental commercial catch of 1-3,000 annually, except 1986 was record high
   Commercial average round weight of 25-33 lbs, command \$ 40-50/lb.

#### Biological Factors

- Smaller than white sturgeon
   Reach maximum length of 7 feet
   Little known regarding spawning, but managers suspect similar to
- Females mature sexually at a late age, and at length near 5-6 feet
   Green sturgeon enter freshwater in late summer-early fall and winter over to spawn the following spring

#### Current Studies

- Age structure information is currently being collected and analyzed.
   Lower Columbia sport fishery sampled and catch estimated since
- · Commercial fishery catches known for all years, and catches in-
- Green sturgeon tagging has occurred incidental to white sturgeon tagging since 1965 with substantial increase in numbers tagged since

See Columbia River White Sturgeon Facts. ODFW. 10/28/87.

WDF, Columbia River Management

# Columbia River White Sturgeon Facts

#### Description of Species

- \*\*Sturgeon originated 200 million years ago.

  \*\*Sturgeon originated 200 million years ago.

  \*\*2s species in Northern Hemisphere, 7 species in North America, 2 species white and green) in Columbia River

  \*\*Green sturgeon inhabit brackish water and are found primarily in the lower 40 miles of Columbia. White sturgeon range from Monterey, CA, north to Bristol Bay, AK and are found throughout Columbia and Snake systems

  \*\*Populations in the upone drainage of Columbia.\*\*
- Populations in the upper drainage of Columbia and in the Snake above Lower Granite Dam are considered remnant

#### Historical Regulations and Fisheries

- Commercial white sturgeon fishery in Columbia began in 1888, reached a peak of 6 million pounds in 1892, and species was decimated by 1899
- Oregon first adopted protective sturgeon regulations in 1899; 4 feet minimum, March 1-November 1 closure, and prohibition of snag lines

- Fish Commission of Oregon conducted research project on sturgeon
- 1947-early 1950's

   Maximum size limit of 6 feet enacted for all fisheries in 1950
- Minimum size limit of 2½ feet enacted for sport (isheries in 1950 Minimum size limit increased to 3 feet for sport (isheries in 1958 Sturgeon stocks rebounded in 1970's (about 20 years after maximum

- 1906 and 1967 catches modern record highs
   Commercial white sturgeon average 30-35/lb round weight and com mand \$1 50-2 00/1b

#### **Biological Factors**

- $\bullet$  Sturgeon mature sexually at 4 feet for males and  $5 \frac{1}{2}$  to 6 feet for females
- · As females become older and larger they produce more eggs and may spawn at increasing time intervals
- Spawning occurs at water temperature of 48-62F, primarily in May and June in rocky, fast-flowing areas.
   Eggs are sticky and adhere to any surface.

- Hatching occurs in about one week.
   Average ages by length are: 7-9 inches (1 yr), 3 feet (9 yrs), 4 feet (12 yrs), 5 feet (16 yrs), and 6 feet (20 yrs).
- Sturgeon are susceptible to harvest for an average of 11 years.

- Lower Columbia sport fishery sampled and catch and effort estimated since 1969
   Middle Columbia (Zone 6) sport fishery sampled and catch and effort cellurated intermits. The contest of the cont
- for estimated intermittantly 1981 to present.

  Commercial fishery catches known for all years and catches intensely sampled since 1980

  Lower Columbia sturgeon tagging has occurred since 1965 with in-
- crease in tagging to provide population estimates beginning 1983.

   5-year BPA-funded study began in Zone 6 in 1986.

ODFW, Columbia River Management October 28, 1987

THE TRUE DOLPHIN Known For Speed And Fighting Spirit

Two marine species in the waters of the Gulf of Mexico have the same name—dolphin. One is the bottle-nosed mammal sometimes called porpoise. The other is the true dolphin, a heautiful and speciature games. beautiful and spectacular game

beautitul ann spectacuuar gause fish.

The dolphin, or dorado, is resplendently colored with huse of iliac, sea greens and emerald pastels mingled with purplish golds. Leaping high into the air those colors with each surge. These repeated leaps of 10 to 20 fect are remarkable demonstra-tions of the dolphin's fighting swirtl.

Dolphins are most often caught by trolling slowly in rather deep waters off reefs or in rather deep waters off reefs or in basilow waters, but the mature fish usually prefer the open seas. These fish are noted for their very great speed and their streamlined body design. The average size dolphin is about 2 or 3 feet long, and they are said to prey on flying fish.

Dolphins are also famed for unusual and rapid change for color at death. Their colors may change from yellow to green to

change from yellow to green to blue to violet in a matter of

What is the rate of sediment

deposition on the sea floor?
Probably the most accurate method of dating sedi is the radio carbon d. Red clay ac method. Red clay ac-cumulates on the bottom of the deep ocean at a rate of haif a centimeter or less every 1,000 years. Calcareous oozes may accumulate twice

The average deposition rate in the Atlantic is probably twice that in the Pacific. because much of the Pacific is far from the land which serves as a sediment source

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How thick is the ice in the Arctic Ocean?

The average thickness of the Arctic ice pack is about 9 to 10 feet, although in some areas it is as thick as 65 feet, with pressure ridges extendina downward ocean as much as 125 feet.

The atomic submaning NAUTILUS passing beneath the North Pole on August 3, 1058, measured a pressure ridge extending 25 feet down. The depth of the ocean at the North Pole was recorded as 13,410 feet; depths as great as 13,776 feet have been recorded near the Pole.

Ice floes ranging from 7 to 13 feet in thickness have been reported in the Arctic. Icebergs, which are pieces of glacial ice floating in the sea, are many times thicker than sea fines



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#### Tagging Sturgeon

In the fall of 1949, Oregon Fish Commission biologists under the direction of Dr. Alex Bajkov began studies to obtain life history information on Columbia River sturgeon. Over 7,000 River sturgeon Over 7,000 sturgeon were tagged and in samples were taken to determine ages The Washington Depart-tinent of Fisheries and Oregon Department of Fish and Widdlife have during recent years. Department of Pish and Wildlife have, during recent years, tagged several thousand sturgeon to obtain more applicable data on a changing river system. The U.S. Pish and Wildlife Service is tagging sturgeon in pools behind Bonneville. The Dalles and John Day dams. I daho is conducting studies on the Snake River using radio tags. Additional in Tadio tags. Additional in studies on the Snake river using radio tags. Additional in formation derived from these programs will enhance our knowledge of sturgeon. Un fortunately the Oregon and Washington studies are 'in ad-dition to other dutes' type of projects with no full-scale fun-ding available

projects with no tulisscale runding available.
Several types of tags have been
used, the most recent being a
plastic tube fock-on tag which is
easy, to apply. Recoverres have
easy, to apply. Recoverres have
easy to apply. Recoverres have
the state of the state of the state of the state
being turned with most recoveries
being turned in by anglers below
Bonneville. A recovery from
Grays Harbor, Washington,
about 150 miles away, was a
modern record for travel. It was
topped recently by an Oregon
State. University professor
sangling for sturgeon to tag in the
Yaquina Bay estuary. He cap
Yaquina Bay estuary He ap

had traveled 300 miles Fishermen are asked to return all tags from legal size fish to the address on the tag. If an illegal sized sturgeon is caught with a tag in it, the angler should leave the tag, or tags, in the fish, record the number and notify an agency Studies have revealed the

t Sturgeon migrate upstream during the fall of the year and

beginning of winter

2 They change course and begin to move downstream during the second part of winter

and spring
3 Some sturgeon do not
migrate at all However, it is
often difficult to tell whether a
fish has moved It may be captured in the vicinity of tagging,
but may have made several trips up and down the river

4 These migrations are un-doubtedly connected with feeding habits Sturgeon meet the smelt and follow salmon and lamprey

later in the year

5 The above mentioned migrations are very pronounced in the 140 miles of river between

Astoria and Bonneville
6 We know that many
sturgeon migrate to and from the

7 Bonneville Dam represents a nearly impassable barrier to migrating sturgeon. A few are

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P.O. BOX 940 ILWACO WA 98624 able to pass and in the past, several hundred were trapped at elevators and put above Bon neville Bonneville Bonneville Dam essentially separates white sturgeon into a lower stock, and an unpre-organized (several).

sturgeon into a lower stock, and an upper one composed of several isolated populations in pools above each dam 8. There are indications, based on several recapitares, that seasonal migrations also take place above Bonneville Dam

Hydroelectric projects have isolated the middle Snake River sturgeon population by styanoelectric projects have solated the middle Snake River sturge on population by restricting movement into or out of the Hells Canyon area These states of the state of the states of

some of the lower reservoir pools.

Most of the environmental factors and fish preferences described in the Snake River studies can be applied to lower

#### Norwegian cod

First there was pen-raised salmon. Now, the Norwegians are working on pen-raised cod, and reportedly, hatcheries in Norway have successfully propagated the fish artificially. This opens the door for commercial pen-raising open the door for commercial pen-raising exported that about the commercial pen-raising states of the commercial interest of the commercial interest shortly.

Has a sea gull, albatross, or other sea bird ever flown across the ocean?

Some sea birds live along the coast and rarely travel far from shore. Others spend returning to land only to nest. Sea gulls are coastal birds, so they would not normally cross the ocean. However, many oceanic birds banded in Europe have been recovered in North America. liwakes banded by scientists in the Barents Sea area have been recovered in Newfoundland 4 months after banding. Puffins, fulmars, and petrels also known to have crossed the Atlantic from Europe to North Amer ica, and the Arctic skua and the Atlantic cormorant fly from Northern Europe to the

By far the most impressive travelers are the Arctic tern and the albatross. The Arctic tern, which is the size of small sea gull, regular small sea gull, regularly migrates from its breeding grounds in the Arctic to the Antarctic. It molts in the Antarctic and returns to the Arctic to nest each year. The albatross is also an oceanic bird, returning to land only to nest. Banding records dicate that albatrosses around the world, especially during their first few years of

Why does the sea foam?
Foam is made up of air bubbles separated from each other by a film of liquid. Bubbles coming together in fresh water coalesce, but bubbles coming together in salt water bounce off each other.

Most bubbles in the ocean are caused by wind waves, but they may also be pro-duced by rain and even snow. The bubbles that form along the seashore are very small, mostly less than 1/2 millimeter in diameter.

When bubbles rise to the when bubbles rise to the surface, they burst and re-lease salt spray into the air, a fact well known to any wearer of glasses who has been on shipboard or at the seashore. Each bursting bubble causes a jet of severa drops to rise to heights up to 1,000 times the bubble diame-ter. It is believed that most of the airborne salt nuclei come from bursting bubbles.

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THE PROBLEM . . . AND THE NEED FOR CHANGE

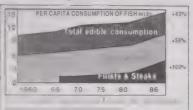
\* The MMPA is ambiguous in its definition of critical terms, leav-ing legal definition to be set by

The MMPA fully protects individual marine mammal species without concern for other interac ting resources in the marine

ecosystem
The MMPA seeks to restore all marine mammal populations to pristine levels — the highest in history — without considering the sum of their impact on today's

MMPA conflicts directly acts, for example, the Fishery Conservation and Management Act. The goal of the FCMA is con Act. The goal of the FCMA is con-servation and development of lishery resources to provide the greatest benefit for the nation. The FCMA considers the needs of marine mammals, but the MMP does not address resource compatition. The halance of competition the balance of mals, fish and fishers

\*\*Current and potential MMPA restrictions hamper FCMA goals, hurt U.S. industry, threaten livelihoods, deny recreational and subsistence opportunity, and shortchange American consumers. In jeopardy is the supply of domestic fish at reasonable



Alaska illustrates the maganitude of conflict: Milhons of marine mammals (95 percent of the U.S. population) inhabit Maskan waters Alaskan seas contains perhaps the world's largest resource of fish. Ac-cording to a 1976 estimate, of the 58 million metric tons of ground fish taken in the Bering Sea, com-mercial fisheries removed 14 percent and marine mammals removed 20 percent. In 1987, the value of Alaska's aggregate of groundfish fisheries approached an estimated \$500 million

an estimated \$500 million. The dichotomy of MMPA protection vs. FCMA productive useraises a critical question: At whatlevel of demand for food will, we decide that more marine resources be used for human needs and fewer used to support marine mammals?

Now expanding marine mammal populations cause increasing resource conflicts. Now MMPA rigid protectionism males as many problems as it

Sea ofters caused serious deelines in California's abalone fishery Alaska's 150,000-plus ofters eat close to one billion pounds of food per year, mainly shellfish. A Dungeness crab fishery in Prince William Sound was closed largely due to sea of ter predation Federal MMPA in-terpretation does not address

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HEARTY SALMON CHOWDER 4 lb salt pork, diced (about cup) (or 3 slices bacon, diced)

I medium-sized onion, chopped 2 cup finely chopped celery

2 cups water

3 medium-sized potatoes, diced 42 teaspoon salt

In teaspoon pepper
In teaspoon thyme
I can (7% oz or 8 oz.) salmon,
drained and flaked

rained and flaked I tall can evaporated milk I can (8 oz.) peas, drained Saute salt pork or bacon until Saute sait pork or bacon until crisp in medium-sized saucepan, drain and reserve bits Saute onion and celery in remaining fat 5 minutes Add water, potatoes, sait, pepper and thyme. Simmer, covered, 20 minutes, or until potatoes are tender. Add sailmon, evaporated milk and peas Heat slowly, but do not boil. Sprinkle with preserved pork or bacon bits with reserved pork or bacon bits with crisp crackers Makes

management of resource con-

Following guidelines develope by scientific committee, A.M.E recommends amending th

MNPA to

1 Provde agencies with authority to tethally remove naisance animals resources is a risk.

2 Provde marine mammals with the same balanced system of protection as accorded all other widdlife populations;

(ies to develop cooperative marine mammal conservation programs encompassing all interacting resources and authoriting the management of "depleted" and management of "depleted" and conservation with other resources to participate in state/ federal programs, in cooperation with fishermen to monitor marine mammal populations and their linearing the mammal populations and their linearing mammal populations and their linearing the mammal populations are resourced and linearing the mammal populations are resourced to the mammal populations and the mammal populations are resourced to the mammal populations and the mammal populations are resourced to the mammal population and the mammal populations are resourced to the mammal populations are resourced to the mammal population and the mammal population a

#### Sea Wars

They may look harmless but they may look harmless but sea anemones are, in fact, ag-gressive predators that trap and devour any minute sea creatures and small fish that pass within and small list that pass witch their reach Their tentactes are armed with tiny organeties called nematocysts. If a passing creature touches one of these, it stimulates the nematocyst to shoot out a thread, which is usually barbed. The thread penetrates the prey and delivers. usually barbed. The thread penetrates the prey and delivers a paralyzing poison. The prey is then pulled into the anemone's

Such aggressive behavior is not confined solely to the anemone's search for food, how ever. Many species will also attack other anemones that come too close to them. To do so, they use a ring of small, inflata-ble bumps located at the base of the tentacles. Scientists call these protrusions, which are also armed with nematocysts, with nematocysts,

armed with nematocysts, acrorhagi.

The beadlet anemones are named for the beadlike appearance of the acrorhagi. They range in coastal areas throughout much of the world. Because they move so slowly, beadlest cannot exploit a large area of the ocean floor for food. Thus. some researchers some researchers speculate that the creatures will attack other anemones to "protect" their feeding territories.

tect" their feeding territories. Curiously, however, fights develop only between individuals of different genetic makeup, such as the red-and white-colored amemones. After approaching and touching tentacles with the white amemone, the red one retreats. As both creatures touch again, their acrorhagi inflate on the sides closest to their nemmy. The white amemone inflates

the sides closest to their enemy. The white anemone inflates faster, though. It arches over its opponent and strikes. As it withdraws its acrorhagi, it leaves white fragments behind on its victim's body. These fragments will eventually cause the body tissue to degenerate and die around the area where they have penetrated they have penetrated

After the confrontation, the

anemones separate, with the victor holding its ground. Soon, its acrorhagi shrink back to their normal size, and the anemone resumes feeding. -Jill Bailey

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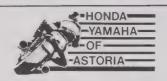
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#### About Kelp

Giant kelp is more involved in your life than you think. An artiyour life than you time. An arti-cle in Oceanus, by marine biologists Ron H. McPeak and Dale A. Glantz, gives information on how kelp gets from the ocean and into the lives of most of us. It is harvested along the California coast from San Diego north to Carmel

coast from San Diego north to Carmel. In productive beds it may be cut three times a year. Modern harvesting vessels are pushed stern first through the beds. Reciprocating blades mountain propertie like a seagoing lawn mower, cutting the floating fronds of the kelp canopy three feet below the surface. The conveyor carries the cut kelp aboard. In one day a harvesting vessel can reap as much as 500 metric tons. In California the kelp industry has harvested as much as 156,000 metric tons in one year.

The kelp forest is not damage by this harvesting. The still-submerged part of the kelp is where sexual reproduction occurs. Also, buoyancy and photosynthesis occur the entire length of the fronds. The removal of the thick canopy lets in more sunlight, which stimulates the

growth of the new fronds that are beneath the surface. Soon a new canopy is formed, and another harvest is in the making. When kelp comes ashore, it goes far beyond the coastline. Its products find their way into your kitchen, dining room, and the compart of th

tilizer for crops. Chemicals from kelp end up in the products of industry.

Kelp's most important contribution is algin. It was first discovered by a British pharmacist in 1885, But it was not until 1289 that Keley, a San Diego company, became the world's first producer of algin prosections of the producer of algin prosections to the control of the producer of algin prosections and admitted in California exceed \$35 million. Their uses are legion. "They thicken, smooth, emulsify, stabilize, gelatinize or create a film when combined with other substances." After giving this information, Sport Diver magazine elaborates:

"Many brewers use alginates to form tougher beer bubbles, making for a longer-lasting foam head. Alginates keep cosmetic cream's smoothness Part of the taste texture of checolate milk cribks and glazed doughnuts are derived

They alginates.

from alginates. They do everything from coating paper to improve its printing quality to making it greaseproof.

"As If those weren't enough uses, it impregnates fabrics to help retard burning. Other forms are used in laundry starches and textile print pastes. Some pharmaceuticals contain algin, as do certain adhesives, rubber provided to the contains of the contains algin, as do certain adhesives, rubber provided the contains algin, as do certain adhesives, rubber provided and to be such as a subject to the contains algin and to not lister."

certain adhesives, rubber products, wallboard, wallboard cements and auto polishes."
Harvesting of the giant kelp is regulated by the California State Fish and Game Commission. May the commission do its job well to safeguard kelp from human exploitation, and may the collection was contracted if numan exploitation, and may the delightful sea otters priotect it from the sea urchins, that the beauty of its forests may continue to dazzle our eyes and its products continue to tickle our palates.

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#### Shad: since the mid-1700s

One of the oldest continuous fisheries in the nation is the American shad. Indians along the East Coast harvested this largest of the herring during the spring spawning runs of the fish long before the white men set foot on the continent. The earliest Eurothe continent. The earliest Euro-pean colonists adopted their techniques. By the mid-1700s a profitable shad fishery had been developed from Maine to the Chesapeake Bay. The spring run of shad still generates excitement among coastal fishermen from Florida

to Maine. In sometimes bleak coastal communities, the shad's annual ascent of larger rivers is viewed not only as a welcome harbinger of spring but also as a restimulation to the local restimulation to the local economy. Epicures, who savor the succulent roe or the entire fish baked to perfection, anxiously await delivery of the first caught fish

caught fish.

In most regions, however, the shad is becoming increasingly difficult to obtain. Commercial landings of American shad have been in decline since the turn of

the century throughout the river systems of the eastern seaboard. Virtually the entire population of shad spends the summer and early autumn in the Gulf of Maine and Bay of Fundy. As temperatures fall, the fish migrate southward as a mass.

In late winter and early spring the mature fish begin to migrate inshore, homing to their respecinshore, homing to their respec-tive natal rivers. Some shad swim as far south as Florda. In-itial spawning runs begin in the St. Johns River as early as December. As the season ad-vances, shad appear in rivers up the coast until midsummer in New Evalues. New England.

After spending a maximum of about two months in the fresh-water rivers, the spent shad descend to the sea and return to their

cend to the sea and return to their summer feeding grounds. Shad are taken by a variety of methods, including gill nets, pound nets, haul and beach seines and otter trawls. Because of the shad's tendency to migrate in huge concentrations, ocean shad s tenuency to managed the resource can be better managed. South Atlantic

American shad have been com-mercially important in Florda since the mid-1800s when water still iced and shipped north in the round, as there is little local de-

centered in the St. Johns River system where shad are taken by gill nets, both set and drifted, and

Production is declining. In 1977 the east coast of Florida yielded 97,000 pounds of shad. The highest landings recorded since 1939 were 842,000 pounds, taken in

Shad is a valuable lishery in Georgia, comprising one of the largest findfish landings in the state. The major fishery is located on the Altamaha River where fish are taken primarily with drift nets and set nets. In 1975 the dockside value of shad was \$113,000, representing more than 35 percent of the state's total landings. But, again, production it declining, Front decrease, in the Shad is a valuable fishery in

as declining. From 1968 to 1978 the average annual decrease in the catch was about 37,000 pounds. Commercial landings for shad in South Carolina peaked in 1889 at 577,000 pounds and dropped to their lowest level of only 24,000 pounds in 1974. However, landings have risen steadily from that date. In 1980, 270,000 pounds were taken, with a dockside value

of \$214,000.

All major river systems in South Carolina support commercial shad fisheries. The bulk of

the fish come from the Winyah Bay system, formed by the con-fluence of the Waccamaw, Pee and set nets comprise the gear fished, except for a few weirs which are used in the upper Lyn-ches River.

The shad fishery of North

The shad fishery of North Carolina steadily increased from the late 1800s until the turn of the accentury, and at one time exceeded that of any other state. Lame million pounds in 1837, but have included the contributed less than 1 percent of North Carolina's total finfish value.

value.

The major harvest areas in the state are the Cape Fear River, the Chowan and Roanoke rivers, which dump into the Albemarie Sound, and the Pamlico and Neuse rivers, which flow into the Pamlico Sound.

Pamlico Sound.
Shad are taken in North
Carolina with drift nets, anchored gill nets, pound nets and

Frank Furlough, of Furlough & Frank Furlough, of Furlough & Sons Seafood, Columbia, North Carolina, described the fishery in detail as it is conducted on the south shore of the Albemarle

Sound.

According to Furlough, the shad first begin to appear in early February, with the run lasting until sometime in May. Fishermen primarily employ anchored gill nets to intercept the shad on their inchore migration. chored gill nets to intercept the shad on their inshore migration. Nets are 70 to 80 inches long, of No. 68 twine, 5½-inch stretched mesh. Nets are 30-55 meshes deep, designed to fish in water from seven to 22 feet deep. Vir-tually everyone uses monofila-ment webbing, which makes it tually everyone uses monofila-ment webbing, which makes it menhaden and allewives. Eets and catifish will come to this bait and. Furlowel says: really tangle and, Furlough says, really tangle

Nets are anchored in the sound itself. Each fisherman may work from 15 up to 30 nets. They are run at least once a day and are left out until they slime up or stop

producing.

Nets are run out and fished from the bow of the fisherman's boat. Very few wood boats are in use anymore. The most popular boats now are outboard powered fel-to 18-foot River Oxes. These are made of fiberglass, but are patterned after the wooden skiffs that were once abundant in this region. region

In 1960 Maryland led the nation in shad production with 1.5 million pounds. Virginia followed with 1.4 million. In 1976 Maryland landings were down to 110,000 pounds; Virginia claimed 986,000 pounds, Virginia still enjoys a viable fishery, but in March, 1980 the state of Maryland closed the American shad fishery for Maryland Chesapeake Bay and tributary waters. A limited harvest still exists because there is a small allowable by-catch fishing is still allowed in coastal waters and bays, and a harvest is still allowed in the Potomac River, which is jointly managed

by Maryland and Virginia. Total landings in 1984 were 70,367

Middle Atlantic

Shad landings in the states of Delaware, New Jersey and New York in 1959 totalled two million pounds. By 1977 landings for the region declined to 394,000 pounds.

region occiment to 399,000 pounds.
Annual commercial landings in
the Delaware River Basin from
1890 to 1901 ranged from 11
million to 17 million pounds and
were several times greater than
in any other river system. By 1957
the Delaware River shad fishery
back become expensively.

New England

New England fishermen harvested two million pounds of shad in 1959. By 1977, total landings for New England were down to 359,000 pounds. Of this total, Connecticut contributed 332,000 pounds. The annual harvest in this state seems to be tabilized. with amprezimately establized with amprezimately seems. England stabilized, with approximately 300,000 pounds of shad landed

The state regulates the fishery, which is centered in the Connecticut River, from the mouth up to just below the town of Nauset. A season, running from April 1 to June 15, is imposed by law. And netters may not fish on weekends, which guarantees adequate escapement. Monofilamet is prohibited.

Harry Root, owner of Old Lyme Seafood, situated near the mouth of the Connecticut, detailed the drift net fishery on the river. Root says he's been in the business for

says ne's been in the business for "30 years too long."

Nets are of No. 69 braided nylon, 5½-inch stretched mesh, 20 to 30 meshes deep, and about 1,400 feet in length. Since shad are so reluctant to hit a nylon net, fishing is limited to the nighttime or during archy, saveon freshels.

nishing is limited to the nighttume or during early season freshets when the water is muddied.

The net is run across the river and allowed to drift with the current. With a light on each end, the net is clearly visible to the fishermen who drifts along with it in his hoat.

The advantage of drift netting is the large amount of territory which can be covered in one night's fishing. The disadvantage lies in the inceased amount of wear and tear on the nets. They must be replaced each year.

Root has only about a dozen fishermen who fish the year around. After the shad run, some go to lobsters. Most go back to other jobs. He figures that the best fishermen gross \$6,000 to \$10,000 during the fix-week

Old Lyme ships roe to New York and as far away as Califor-nia. Shad are boned at only four locations in Connecticut. Demand for the fresh fillets is strictly local Root says that in the future the fishery should remain stable in Connecticut since there are not enough fishermen to hurt it.

Processing Most dealers who handle shad report that they limit their pro-

CONTINUED ON PAGE 19

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#### Shad:

CONTINUED FROM PAGE 18

cessing to cutting out the valuable roe, which can wholesale for \$4.50 for a jumbo set. Fish are then sold whole to the consumer or are passed on to other dealers where the fish are

other dealers where the fish are boned.
According to Don Sulewski of the W.T. Freburger Company, Jessup, Maryland, there is more boning going on in the Baltimore Market now than ever.
The fine bones in the shad lie in four rows. It is something of an art to cut them out and is a process which takes some time to learn. A good boner can cut the roe, scale the fish, take off the head, split and bone in about two minutes and, in the Baltimore Market, earn up to \$1.50 per fish. Sulewski says that the market for shad is not as tirm as it used to be because the younger generations do not utilize the fish. Frank Furlough of North Lordina agrees. "Eating hablis have changed. People won't est hony fish anymore." Dennand for reemains strong, however.

Deline and future eline and future Anadramous species are par-Anadramous species are par-ticularly susceptible to the deleterious effects of human ac-tivity. Coastal rivers and estuaries that the fish have historically ascended in order to spawn have often proved to be ideal locations for initial set-tlements. The decline of the shad tlements. The decline of the shad on the Atlantic Coast appears to parallel the increase in human population and development

population and development along these rivers. The substantial decrease in the abundance of the American shad can be attributed to construction can be attributed to construction of dams, pollution by chemicals and sewerage, channelization, dredge and fill projects which reduce spawning habitats and overfishing.

#### 1987 British Columbia Salmon Catch Down

British Columbia Chinook cat the worst since 1962. For 20 years, up until 1963 the average take was about one million chinook an-

By contrast the entire Oregon coast and Washington had good

returns.
Rick Berry, a staff biologist
with the Oregon Fish and Wildlife
Department, sald from his Portland office that commercial
trollers took 500,000 chinook in 1987, up from 367,000 the previous year. Gillnetters enjoyed the largest catch since the 1940s and sports anglers had good catches, especially in the Columbia River. Experts here say poor climatic

conditions at sea are probably to blame for British Columbia's

conditions at sea are processly to blame for British Columbia's chinook problems. Hatchery fish, which make up about 15 percent of British Col-imbia's salmon, are tagged and can be accurately tracked. With hatchery productions in British Columbia at high levels but catch returns low, biologists know the fish aren't surviving at sea. But they don't know why. Washington biologists are valuating last year's chinook returns, but Terry Filint of the state Department of Fisheries said he sees no signs indicating a poor year.

poor year.
Alaska comes closest to shar-ing British Columbia's chinook problem, having experienced returns that worry biologists to the point that catch restrictions will be brought into place this year.

year.
"We saw record levels in the '80s but the trend in the last couple of years has been on the downside," said Richard Ran-dall, regional supervisor for the Alaska Department of Fish and

Wildlife.

He said over-fishing is to



#### Strong Salmon Return

EUREKA — King salmon re-turned to the Eel River in northern California in such re-cord numbers late last fall that cord numbers late last fall that many of the residents of the towns along its course stood on the banks to watch. It was the largest spawn in memory, according to the Pacific Coast Federation of Fisherment's Association (PCPA), and fairly good seasons in the near future. Near-record runs also returned to the Sacremento, Klamath-Trinity and Smith rivers.

to the Sacremento, Kiamath-Trinity and Smith rivers.

Fishermen attribute the rivers.

Fishermen attribute the rivers and good section at clees

combination of factors. Chief

among these were high freshwater outflows during the winters of 1983 and 1984, the broad

years for the 1987 returning

stocks, "Large spring outflows

of fresh water to rivers,

estuaries and ocean have been

found critical to salmon surviv
al," says Nat Bingham, PCFFA

president. He also points out that

restoration, water management

and enhancement programs con
tributed to the improvement.

—Brad Masten -Brad Matsen

#### Storm Claims **Divers**

SAN PEDRO — Six sea urchin divers wearing full wet suits survived 17 hours in storm-driven seas Dec. 16, after the 42' San Pedro-based Explorabed Explorabed continued to Santa Barbara Island. Three other members of the vessel's nine-man crew, however, are missing and presumed dead. sumed dead.

A Navy helicopter lifted the survivors to safety after rescue crews had scoured 2,000 square crews had scoured 2,000 square miles of ocean surrounding the Channel Islands, looking for the lil-fated boat and crew. Five of the six survivors were spotted floating near the Explorador's bow, which remained above the water. The sixth was found an hour later, clinging to a surfboard. Those who didn't survive reportedly, were wearing only. reportedly were wearing only partial wet suits.

The Explorador was returning

from a dive trip at San Nicolas Island when it was disabled by the Arctic-bred southeaster. Coast Guard officials said the ssel was not equipped with a life raft.

The tempest was reportedly

southern California's worst since El Nino storms battered the area four years ago, sinking boats, destroying beaches and uproot-

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#### "The Columbia River Bar"

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I'm heading for the Columbia River Bar. I've been there many times before. The Buoy's moan, the frothing foam, makes ya wonder why you roam.

I'm heading for the Columbia River Bar. I've been there many times before If the sea could talk, we'd probably get out and walk. For the tales that could be told, of the frightened and the bold, of ships laden with gold. How far beneath in the cold.

I'm heading for the Columbia River Bar. I'm heading for the Columbia River. I've been there many times before. With the South Jetty on my stern, I know some day I'll return — I'll be heading for the Columbia River Bar.

> Author: Jim Bernard Astoria, Oregon

#### "ATTENTION FISHERMEN"

A project to record the commercial fishermen of the Columbia is being started by Oregon Sea Grant Extension, the Maritime Museum, and various other agencies. The goal is to record the experiences of fishermen for historical record and lues for production of video and slide presentations. The goal is to do a video tape similar to "Remembering Uniontown" and Steam "Whistle Logging."

The more people we can involve in the project the better. Everyone has a story to tell and their experiences are important to local history. A project to record the com-

If you are interested in helping please contact Jim Bereron at the Seafood Laboratory near the East end mooring basin. Phone

#### Fish Swimming Speeds

Two University of California (at Los Angeles) scientists, using a magnetic "speedometer" attached to a fishing rod, measured the speed of a yellowfin tuna at shout 45 miles per hour. A wahoo, a mackerel-like fish, swam up to 48 miles per bour. Zoologists previously have the opinion that the seldom ever swam faster than 27 m.p.h.

#### Record Catch

PORTLAND (AP) — Oregon fishermen caught a record \$94 million worth of saimon, halibut, crab, shrimp and other fish in 1987, officials said, with Astoria leading

officials said, with Astoria leading the state.

Astoria was first in the value of fish landed at Its docks with \$85.5 million, said Hans Radtke, a spokesman for the West Coast Fisheries Development Foundation. Newport was second with \$24 million while Coos Bay was third with \$21.5 million.

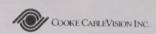
The value of the 1987 catch was

\$21.5 million.

The value of the 1987 catch was nearly three times the value of the 1984 catch, which was worth about \$34 million, according to Chris Carter, Department of Fish and Wildlife staff economist.

The total weight of the 1987 catch was the second-highest on record at 138 million pounds. The record was set in 1981 at 148 million pounds of fish.

set in 1981 at 148 million pounds of fish.
Radtke said last year's pink shrimp catch totaled 45 million pounds at an average price of 68 cents per pounds.
That compares with 34 million pounds caught in 1986, selling for an average price of 50 cents a pounds.
Trawlers harvested 67.4 million average price of 50 cents a pounds.
Trawlers harvested 67.4 million estimated \$2.3 million.
Salmon trollers and gillnetters had their best harvest in years, worth \$26.5 million for all species, beating the previous record of \$21 million in 1979. The total catch weighed in at 14.7 million pounds, the largest since 1976.
Radtke said the fishing industry provides about 1 percent of Oregon's total earned income but it accounts for about 1 percent of the coastal earned income.



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